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**Inter-University Board, India**

**HANDBOOK OF  
INDIAN UNIVERSITIES**

**1942**

**ISSUED BY  
THE SECRETARY, INTER-UNIVERSITY BOARD, INDIA  
LUCKNOW**

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## FOREWORD

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This is the ninth issue of the *Handbook of Indian Universities* published by the Inter-University Board, India, with the help of a special grant made for the purpose by the Government of India, Department of Education, Health and Lands. The Volume also contains information about other institutions in the country doing work of University standard. Particulars regarding copies of this as well as other publications of the Inter-University Board can be had from this Office or from the Bangalore Press, Bangalore City. All communications relating to this *Handbook* should be addressed to the Secretary, Inter-University Board, India, Lucknow.

N. K. SIDHANTA,

LUCKNOW,	}	Secretary,
20th January 1942.		Inter-University Board, India.



## INTRODUCTION

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The first proposal for founding a University in India was made by the Council of Education in Bengal in the year 1845, but was not accepted by the Board of Directors of the East India Company, who considered the scheme somewhat premature. The famous Despatch of Sir Charles Wood in 1854, soon after the renewal of the Charter of the East India Company in the previous year, brought the question once more to the front, as it demanded a scheme of Education for all India, far wider and more comprehensive than the Local or Supreme Government would have ventured to suggest. "Among many subjects of importance," proclaimed the epoch-making document, "none have a stronger claim to our attention than that of education. It is one of our most sacred duties to the nation, to be the means, as far as in us lies, of conferring upon the natives of India those vast moral and material blessings which flow from the general diffusion of useful knowledge and which India may under Providence derive from her connection with England."

It was in accordance with this declared policy of the Government of India, that the foundations of University education were laid in the country with the establishment of the Universities of Calcutta, Bombay and Madras in the year 1857, the necessary legislation incorporating them having been passed respectively on 24th January, 18th July and 15th September of the year. The jurisdiction of the Calcutta University, which at the beginning included practically all Northern India, was soon found to be unwieldy and it was therefore broken up by the establishment of two additional Universities, the University of the Panjab which was founded in 1882 and the University of Allahabad which followed five years later in 1887.

These five Universities were found adequate for several years to meet the needs of the entire country in the matter of higher education, though many important events had happened during the interval. An Educational Commission, presided over by Sir William Hunter, was appointed in 1882 "to enquire particularly into the manner in which effect has been given to the principles of the Despatch of 1854, and to suggest such measures as it may think desirable in order to the further carrying out of the policy laid down". The deliberations of this Commission resulted in recommendations of a far-reaching nature with regard to the control of higher education in the country and the encouragement of private enterprise in the matter of colleges, but no additions were made to the existing Universities.

The next landmark in the history of Indian Universities was the appointment, by Lord Curzon, of a Universities' Commission in the year 1902. The recommendations of the Commission were mainly in the direction of reforms in the constitutions of Universities, "that educational standards should be allowed a predominant influence in them". An enactment for amending the law relating to Universities in India came into effect on the 1st September 1904, and new Senates and Syndicates were formed in accordance with the provisions of the new code. This Act laid new responsibilities upon Universities as regards both their control of affiliated colleges and their own teaching functions.

The Universities of India were not originally teaching bodies, but the Act of 1904 specified the provision of Instruction as one of their duties and gave them the power of appointing professors and lecturers, of holding and managing endowments and of erecting, equipping and maintaining University libraries, laboratories and museums. Though the bulk of the teaching continued to be in affiliated colleges, a certain amount of higher instruction now began to be concentrated under University management. Assisted by grants from the

Imperial Government and in a few cases by private endowments, some of the Universities were successful in the formation and maintenance of colleges for ordinary instruction, in the partial substitution of University for college teaching in the courses for the Master's Degree and in the organization of research and lectures of general interest.

The resolution of the Government of India on Indian Educational policy issued in 1913 drew attention not only to the need for additional Universities in India, but also for university organizations of a better type. "At present," the Resolution observed, "there are only five Indian Universities for 185 arts and professional colleges in British India besides several institutions in Native States. The day is probably far distant when India will be able to dispense altogether with the affiliating University. But it is necessary to restrict the area over which affiliating Universities have control by securing, in the first instance, a separate University for each of the leading provinces in India and secondly, to create new local teaching and residential Universities within each of the provinces in harmony with the best modern opinion as to the right road to educational efficiency." It is interesting to note that the country was soon to benefit by activities in both these directions.

If the earlier Universities of India were started, more or less entirely, under official auspices, there were soon to be two new Universities in the country to serve the special needs of the Hindus and Muhammadans, founded largely by the efforts of the leaders of the two communities themselves, though aided by the Government and established by Acts of Legislature like the first models. The Benares Hindu University came into existence in 1916 and the Aligarh Muslim University in 1920. The primary aim of the former is to preserve "the best thought of the culture of the Hindus and all that was good and great in the ancient civilization of India." though admission is not restricted to Hindus only and though it has extensive departments of modern learning in Arts as well as in Science, including



Engineering, Mining and Metallurgy, and Agriculture. The aims of the Aligarh Muslim University are on similar lines, though it is also open, like the Benares Hindu University, to students of all communities and has all the usual departments of a modern University. The provision of faculties of Oriental Learning and of religious instruction is a special feature of these institutions. It is only necessary to add that both of these Universities were based on earlier foundations, the Central Hindu College of Mrs. Annie Besant at Benares and the Muhammadan Anglo-Oriental College of Sir Syed Ahmed at Aligarh.

The rapid progress of higher education in Indian States was responsible for the foundation of the University of Mysore in 1916, the Osmania University of Hyderabad-Deccan in 1918 and the University of Travancore in 1937. A noteworthy feature of the Osmania University is that all teaching in non-language subjects is through Urdu, the language of the State, though the courses have recently been made to include even such technical subjects as Medicine and Engineering.

The constitution of Bihar and Orissa into a separate province resulted in the formation of an additional University at Patna in 1917.

The Calcutta University Commission, presided over by Sir Michael Sadler, which deliberated from 1917 to 1919, was responsible for considerable activity in the University world of India. One of its primary recommendations was that Universities should be relieved of their intermediate work so that they might be able to concentrate attention on real University teaching and the advancement of higher learning. The movement for the establishment of unitary and residential Universities which were also strongly advocated by the Commission received great impetus and several Universities were formed in the years immediately following the report, largely on the new lines recommended which had also already been adopted by Benares and Mysore in 1916. Reference has been made to the Aligarh

Muslim University which was founded in 1920. A University was also established in the same year at Rangoon to satisfy the aspirations of Burma. The University of Lucknow was incorporated in December 1920. The University of Dacca came into existence on the 1st July 1921. The Imperial Capital of Delhi had a University of its own by Act VII of 1922. The Central Provinces which had to be content till now with the affiliation of its colleges to the University of Allahabad obtained a new University of their own at Nagpur in 1923.

Though the recommendations of the Calcutta University Commission have not been given effect to in any substantial manner in the University of Calcutta for which they were primarily intended, they have been responsible for many changes in the organization of higher education in the United Provinces. After the foundation of the unitary, teaching and residential Universities of Benares, Aligarh and Lucknow, the constitution of Allahabad was also changed in 1922 into a University of the same type, though the associated colleges continued to be controlled by it till July 1927. The formation of the Agra University during the year, however, freed Allahabad completely from its external jurisdiction and it is now functioning entirely as a University of the unitary type. Incidentally, this has furnished the people of Agra with a separate University of their own, though it has also, at present, to cater to the needs of Rajputana and Central India.

Another notable feature in connection with the Universities in the United Provinces is that except in the case of Aligarh and Benares, Intermediate Education has been removed from their control, with the formation of a separate Board of High School and Intermediate Education for the purpose in 1921, established by a special Act of the Legislature, in accordance with one of the most important recommendations of the Calcutta University Commission, the only other University in India which has also embodied the reform being the University of Dacca. The colleges of

Rajputana and Central India also have only their degree classes affiliated to the University of Agra, while the Intermediate classes are controlled by the Board of High School and Intermediate Education for Rajputana (including Ajmer-Merwara), Central India and Gwalior established in 1929.

As was only to be expected the establishment of Universities of a newer type could not but exercise considerable influence on the older Universities. The University of Calcutta may be said to have entered upon an entirely new chapter in her history with the Indian Universities Act of 1904, and the constitution has also been amended, more than once, since that date. It has now extensive and well-established teaching departments, though it also continues to be the largest affiliating University in India and the Empire. The University of Bombay underwent complete reorganization by the Act of 1928, which reduced the proportion of the nominated to the elected members of the Senate and enabled various popular interests to be represented on it. By the new Act, the executive functions of the University are carried on by the Syndicate, while the academic work is looked after by the Academic Council. In the case of the University of Madras, the Indian Universities Act of 1904 has been superseded by the Madras University Act of 1923, with a view to establishing a teaching and residential University at Madras, while enabling the University to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it. This Act has again been amended by Act XII of 1929. The University of the Panjab has also been changing in its duties and responsibilities since the year 1919. Honours teaching in every subject is now directly under the control of the University which also administers the Oriental, Law and Commerce Colleges. The University has also attempted in some measure to co-ordinate the teaching in the colleges at Lahore. . . .

The year 1926 witnessed important University developments in the Madras Presidency with the

establishment of the Andhra University for the special needs of the Telugu people in the north, the headquarters of the University having been settled after prolonged controversy to be located at Waltair. The Annamalai University of Annamalainagar at Chidambaram in Southern India began to function in July 1929 and was rendered possible by the princely generosity of the Hon'ble Raja Sir Annamalai Chetty who gave a donation of twenty lakhs of rupees for the purpose in addition to the buildings, equipment and property of the Colleges for English, Tamil and Sanskrit studies founded some years earlier by him at the same place. The youngest University in the country is the University of Travancore which was established by the Government of His Highness the Maharaja of Travancore on the auspicious occasion of His Highness's Twenty-sixth Birthday on 1st November 1937, the chief aims of the University being to develop technological education to make provisions for original research in Applied Science and to provide for the conservation of Kerala Art and Culture.

N. K. SIDDHANTA.

LUCKNOW.	}	Secretary,
20th January 1942.		Inter-University Board, India.



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# THE INTER-UNIVERSITY BOARD, INDIA

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The need for co-ordination in the work of the Universities in India was expressed by the Calcutta University Commission in their Report, and in 1921, acting on a resolution passed by the Congress of the Universities of the Empire, the Indian Delegates to the Congress passed a resolution recommending to the Universities of India, that an Association or a Committee of Representatives of different Indian Universities be formed, with the object of dealing with questions affecting their mutual and common interests. It was suggested in particular that such an association if formed should go into the question of certain difficulties which might arise owing to the conditions of admission of students to certain courses and examinations of the Universities of the United Kingdom not being suited to the qualifications which students from Indian Universities could present. The Lytton Committee on Indian students in England also hoped that the Indian University authorities would take steps at an early date to establish an Inter-University Board for the purpose of co-ordinating the courses of study in India and securing uniformity in their recognition abroad. The Indian Universities' Conference held at Simla, in May 1924, passed a resolution unanimously recommending to the Universities that it was desirable that an Inter-University organization should be established. The functions assigned to it were the following:—

- (i) To act as an Inter-University Organization and Bureau of Information;
- (ii) To facilitate an exchange of professors;
- (iii) To serve as an authorized channel of communication and facilitate co-ordination of University work;
- (iv) To appoint or recommend, where necessary, a common representative of India at an Imperial or International Conference on Higher Education;
- (v) To assist Indian Universities in obtaining recognition for their degrees, diplomas and examinations in other Universities;
- (vi) To act as an Appointments' Bureau for Indian Universities;
- (vii) To fulfil such other duties as may be assigned to it from time to time by the Indian Universities.

A Provisional Committee consisting of representatives of the Universities was also appointed to discuss ways and means and other preliminaries with regard to the formation of this Board. It prepared an estimate of probable expenditure amounting to Rs. 24,000 per annum; and suggested that each



of the fifteen Universities then in existence in India should guarantee an annual contribution of a maximum amount of Rs. 1,600\* for a term of three years with effect from 1st April 1925, and that an advance payment of not less than Rs. 100 should be made by each University on 1st February 1925, to meet certain preliminary expenses. Twelve Universities agreed to join the Board and made a preliminary contribution. Their representatives met at Bombay in March 1925 to consider the Agenda, which had been prepared in this instance by the Education Department of the Government of India. The Agenda included questions relating to the future organization and work of the Board as well as a number of references made in advance to the Inter-University organization by the Universities' Conference held at Simla. The first annual meeting was held at Delhi in February 1926. Since then the Board has met every year: at Benares in February 1927, at Madras in February 1928, at Patna in February 1929, at Dacca in March 1930, at Mysore in February 1931, at Lahore in March 1932, at Hyderabad in February 1933, at Delhi in March 1934, at Calcutta in February 1935, at Aligarh in February 1936, at Nagpur in February 1937, at Allahabad in December 1937, at Bombay in February 1939, at Waltair in December 1939, at Trivandrum in January 1941, and at Annamalainagar (Chidambaram) in January 1942. All the Universities in India and Burma are now members of the Board.

Besides the annual meetings attended by the representatives nominated to the Board by the Universities of India, the Board is also holding larger quinquennial Conferences of delegates from all the Universities. Apart from the first Conference held at Simla in May 1924, prior to the establishment of the Inter-University Board, the second Conference of Indian Universities was held at Delhi in October 1929, opened by His Excellency Lord Irwin, Viceroy and Governor-General of India, the third Conference was held at Delhi in March 1934, opened by His Excellency Lord Willingdon and the fourth Conference was held in Bombay in March 1939, opened by His Excellency Sir Luney, Governor of Bombay.

LUCKNOW. }  
20th January 1942. }

N. K. SIDHANTA,  
Secretary.  
Inter-University Board, India.

\* It was found necessary to call for a contribution of Rs. 1,000 only from each constituent University. Since 1932 the contribution from each University has been reduced to Rs. 750 per annum. The Board is now supervising Inter-University Sports and running Inter-Varsity Tournaments in Football, Hockey, Cricket, Tennis, Athletics and Swimming. Each University contributes Rs. 100 per annum as a consolidated fee for these Tournaments.

# THE INTER-UNIVERSITY BOARD, INDIA

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## List of Representatives, 1941-42

1. Dr. Syamaprasad Mookerjee, M.A., B.L., Barrister-at-Law, D.Litt., M.L.A., 77, Asutosh Mookerjee Road, Calcutta (*Chairman*).
2. Pandit Amaranatha Jha, M.A., F.R.S.L., Vice-Chancellor, University of Allahabad, Allahabad.
3. Sir C. Ramalinga Reddy, M.A. (Cantab.), Hon.D.Litt., M.L.C., Vice-Chancellor, Andhra University, Waltair.
4. Rajakaryapravina Mr. N. S. Subba Rao, M.A. (Cantab.), Bar-at-Law, Vice-Chancellor, University of Mysore, Mysore.
5. Dr A. C. Sen Gupta, M.A. (Edin.), D.Litt., I.E.S., Principal, Morris College, Nagpur.
6. Prof. A. B. A. Haleem, B.A. (Oxon.), Bar-at-Law, Pro-Vice-Chancellor, Aligarh Muslim University, Aligarh.
7. Dr. Sir S. Radhakrishnan, M.A., D.Litt., LL.D., F.B.A., Vice-Chancellor, Benares Hindu University, Benares.
8. Dr. Sachchidananda Sinha, Barrister-at-Law, Hon.D.Litt., M.L.A., Vice-Chancellor, Patna University, Patna.
9. Dr. R. C. Majumdar, M.A., Ph.D., Vice-Chancellor, University of Dacca, Ramna P.O., Dacca.
10. C. V. Chandrasekharan, Esq., M.A. (Oxon.), F.R.H.S., Pro-Vice-Chancellor, University of Travancore, Trivandrum.
11. Khan Bahadur Mian M. Afzal Husain, M.Sc., M.A. (Cantab.), I.A.S., Vice-Chancellor, University of the Panjab, Lahore.
12. The Hon'ble Sir Maurice Gwyer, K.C.B., K.C.S.I., Vice-Chancellor, University of Delhi, Delhi.
13. R. P. Masani, Esq., M.A., J.P., Vice-Chancellor, University of Bombay, Bombay.
14. Dr. Maung Set, C.I.E., B.A., LL.D., Vice-Chancellor, University of Rangoon, Rangoon.
15. Sir Mahomed Usman, K.C.I.E., B.A., M.L.C., Vice-Chancellor, University of Madras, Madras.
16. Rai Bahadur Dr. Sir K. V. Reddi Naidu Garu, K.C.I.E., D.Litt., M.L.C., Vice-Chancellor, Annamalai University, Annamalainagar.

17. Rev. J. C. Chatterji, M.A., Vice-Chancellor, Agra University, 10 Cavalry Lines, Delhi.
  18. Raja Bisheshwar Dayal Seth, B.A., M.L.A., Vice-Chancellor, University of Lucknow, Lucknow.
  19. The Hon'ble Nawab Mahdi Yar Jung Bahadur, M.A. (Oxon.), Vice-Chancellor, Osmania University, Education and Finance Member of the Executive Council of His Exalted Highness' Government, Hyderabad, Deccan.
- John Sargent, Esq., M.A., C.I.E., Educational Commissioner with the Government of India, New Delhi.
- Prof. N. K. Sidhanta, M.A. (Cantab.), Professor of English, University of Lucknow, Lucknow (*Secretary*).

### Succession List of Chairmen of the Inter-University Board, India

1. The Rev. E. M. Macphail, M.A., D.D., C.I.E., C.B.E., Vice-Chancellor, Madras University, Madras (1925).
2. The Rt. Hon'ble Dr. Sir Akbar Hydari, Nawab Hyder Nawaz Jung Bahadur, B.A., LL.D., Finance Member, Executive Council, and Member, University Council, Osmania University, Hyderabad (Deccan) (1925-27).
3. Sir R. Venkataratnam Naidu, Kt., M.A., Vice-Chancellor, Madras University, Madras (1927-28).
4. Prof. A. C. Woolner, M.A., C.I.E., Vice-Chancellor, The Panjab University, Lahore (1928-30).
5. Principal A. B. Dhruva, M.A., LL.B., I.E.S. (Retired), Pro-Vice-Chancellor, Benares Hindu University, Benares (1930-31).
6. The Rev. Dr. W. S. Urquhart, M.A., D.Litt., D.D., D.L., Principal, Scottish Church College, Calcutta (1931-32).
7. Diwan Bahadur Sir K. Ramunni Menon, Kt., M.A. (Cantab.), Vice-Chancellor, Madras University, Madras (1932-33).
8. Prof. G. H. Langley, M.A., I.E.S., Vice-Chancellor, Dacca University, Ramna, Dacca (1933-34).
9. Prof. P. A. Wadia, M.A., Bombay University, Bombay (1934-35).
10. R. Littlehailes, Esq., M.A., C.I.E., Vice-Chancellor, Madras University, Madras (1935-36).
11. Pandit Amaranatha Jha, M.A., Professor of English, Allahabad University, Allahabad (1936-37).
12. Dr. C. R. Reddy, M.A. (Cantab.), Hon.D.Litt., M.L.C., Vice-Chancellor, Andhra University, Waltair (1937-38).

13. Diwan Bahadur S. E. Runganadhan, M.A., L.T., M.L.C., Vice-Chancellor, University of Madras, Madras (1938-39).
14. Rajakaryapravina Mr. N. S. Subba Rao, M.A. (Cantab.), Bar-at-Law, Vice-Chancellor, University of Mysore, Mysore (1939-40).
15. Dr. A. C. Sen Gupta, M.A., D.Litt., I.E.S., Director of Public Instruction and Secretary to Government, Central Provinces and Berar, Nagpur (1940-41).
16. Hon'ble Dr. Syamaprasad Mookerjee, M.A., B.L., Barrister-at-Law, D.Litt., M.L.A., 77, Asutosh Mookerjee Road, Calcutta (1941-42).

### Succession List of Secretaries of the Inter-University Board, India

1. N. S. Subba Rao, Esq., M.A. (Cantab.), Barrister-at-Law, University Professor of Economics, and Principal, Maharaja's College, Mysore (1925-27).
2. P. Seshadri, Esq., M.A., Dean, Faculty of Commerce, Agra University, and Principal and Senior Professor of English Literature, Sanatan Dharma College, Cawnpore (1927-32).
3. A. R. Wadia, Esq., M.A. (Cantab.), Bar-at-Law, Professor of Philosophy, Mysore University, Mysore (1932-37).
4. N. K. Sidhanta, Esq., M.A. (Cantab.), Dean, Faculty of Arts and Professor of English, Lucknow University, Lucknow (since 1937).



# Agra University

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## Introductory: Character of the University

The Agra University was brought into existence on the 1st of July 1927 by an Act of the Legislature of the United Provinces of Agra and Oudh, for the purpose of affiliating the Colleges associated with the University of Allahabad, as reorganized by the Allahabad University Act, 1921, so as to set the University of Allahabad free to function as a unitary, teaching and residential University by relieving it of the responsibility of controlling the quality and character of teaching given in its name by the associated colleges (situated outside the territorial area of 10 miles' radius from the Convocation Hall of the University), and placing such responsibility upon an affiliating University at Agra.

The jurisdiction of the University extends over the United Provinces of Agra and Oudh, Central India and Rajputana.

## Officers of the University

### CHANCELLOR

His Excellency Sir Maurice Garnier Hallett, K.C.S.I., C.I.E.,  
Governor of the United Provinces (*Ex-officio*)

### VICE-CHANCELLOR

Rev. J. C. Chatterjee, M.A.

### REGISTRAR

Pandit Shyam Sundar Sharma, M.A.

### DEANS OF THE FACULTIES

Arts	.. Mr. S. C. Chatterji, M.A., M.L.A., St. Andrew's College, Gorakhpur.
Science	.. Dr. L. P. Mathur, D.Sc., St. John's College, Agra.
Law	.. Rai Bahadur Dr. Brijendra Swarup, LL.D., M.L.C., Civil Lines, Cawnpore.

Commerce	.. Mr. Kalka Prasad Bhatnagar, M.A., LL.B., D. A.-V. College, Cawnpore.
Agriculture	.. Dr. T. S. Sabnis, D.Sc., I.A.S., Agricultu- ral College, Cawnpore.
Medicine	.. Major-General H. C. Buckley, C.S.I., I.M.S., Medical College, Agra.

### Constitution of the University

The authorities of the University are—

The Senate, the Executive Council, the Academic Board, the Board of Inspection, and the Faculties of Arts, Science, Law, Commerce, Agriculture and Medicine. The Senate is the supreme Governing Body of the University, and the Executive Council the Executive Body; the Academic Board advises the Executive Council on academic matters; and the Board of Inspection is responsible for the periodical inspection of affiliated colleges. Each Faculty constitutes its Boards of Studies, whose reports regarding the courses of study it considers and forwards to the Academic Board with its own recommendations.

### Teaching and Affiliated Colleges

There are at present twenty-two colleges affiliated to the University, a list of which is given below. The University has no teaching staff of its own, but teaching is carried on at present in the affiliated colleges, which have their own staff.

Under the Allahabad University Act, 1921 [Section 7 (5)], the affiliated colleges were not allowed to maintain Intermediate classes for the purpose of preparing students for admission to the University, beyond a period of five years from the commencement of the Allahabad University Act, 1921, save with the previous sanction of the Local Government and for such period as the Local Government may direct, but under the Agra University Act (Section 39) this restriction on the maintenance of the Intermediate classes has been removed and it no longer applies to the affiliated colleges of the University, which are permitted to maintain or comprise classes, *also* in preparation for the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces or of Rajputana, C. I. and Gwalior. The University, however, exercises control over the quality and the character of teaching given in the degree and post-graduate classes *only*, and *not* in the Intermediate classes in the affiliated colleges which is the special feature of the Agra University Act.

*Name of College with name of Principal*      *Subject and Examination for which each College is recognized by the University.*

(NOTE.—“Recognition” does not necessarily mean that classes are actually being held in all the subjects, for which recognition has been granted.)

1. Agra College, Agra. (*Principal*: Mr. H. Krall, B.A., M.Sc., F.I.C.)      *Faculty of Arts*.—M.A. in Philosophy, English, History, Political Science, Hindi, Urdu and Mathematics; B.A. in English, History, Economics, Philosophy, Sanskrit, Persian, Hindi, Urdu, Mathematics, Military Science and Political Science.

*Faculty of Science*.—M.Sc. in Physics, Chemistry, Zoology, Botany and Mathematics; B.Sc. in Mathematics, Physics, Chemistry, Zoology, Botany and Military Science.

*Faculty of Law*.—LL.B.

2. St. John's College, Agra. (*Principal*: Rev. Canon T. D. Sully, M.A.)

*Faculty of Arts*.—M.A. in English, Philosophy, Economics, History, Mathematics, Persian and Hindi; B.A. in English, History, Economics, Philosophy, Sanskrit, Persian, Mathematics, Hindi, Urdu and Geography.

*Faculty of Science*.—M.Sc. in Chemistry, Zoology and Mathematics; B.Sc. in Mathematics, Physics, Chemistry, Zoology and Botany.

*Faculty of Commerce*.—B.Com.

3. Maharaja's College, Jaipur. (*Principal*: Mr. K. L. Varma, M.A.)

*Faculty of Arts*.—M.A. in English, History, Philosophy, Sanskrit, Persian and Mathematics; B.A. in English, History, Philosophy, Economics, Sanskrit, Persian and Mathematics.

*Faculty of Science*.—M.Sc. in Mathematics; B.Sc. in Mathematics, Chemistry and Physics.

*Faculty of Commerce*.—B.Com.

4. Meerut College, Meerut. (*Principal*: Col. T. F. O'Donnell, M.C., V.D., B.A.)

*Faculty of Arts*.—M.A. in English, History, Philosophy, Persian, Sanskrit, Economics, Political Science and Mathematics; B.A. in English, History, Philosophy, Persian, Sanskrit, Economics, Mathematics, Hindi, Urdu, Political Science and Military Science.



<i>Name of College with name of Principal</i>	<i>Subject and Examination for which each College is recognized by the University.</i>
	<i>Faculty of Science.</i> —M.Sc. in Mathematics; B.Sc. in Physics, Chemistry, Mathematics, Botany, Zoology and Military Science. <i>Faculty of Law.</i> —LL.B. <i>Faculty of Commerce.</i> —B.Com.
5. Christian College, Indore. ( <i>Principal</i> : Rev. A. A. Scott, M.A., B.D.)	<i>Faculty of Arts.</i> —M.A. in Philosophy; B.A. in English, Philosophy, Sanskrit, Persian, History, Economics, Political Science and Mathematics.
6. Holkar College, Indore. ( <i>Principal</i> : Mr. H. B. Richardson, M.A.)	<i>Faculty of Arts.</i> —M.A. in English, Economics and History; B.A. in English, Economics, History, Sanskrit, Hindi, Mathematics, Philosophy, Persian and Marathi. <i>Faculty of Science.</i> —M.Sc. in Chemistry; B.Sc. in Mathematics, Physics and Chemistry. <i>Faculty of Law.</i> —LL.B. <i>Faculty of Commerce.</i> —B.Com.
7. S. D. College, Cawnpore. ( <i>Principal</i> : Mr. L. C. Tandon, M.A., M.Com.)	<i>Faculty of Arts.</i> —M.A. in English, Economics, Sanskrit, History and Hindi; B.A. in English, Mathematics, Economics, History, Sanskrit, Hindi and Political Science. <i>Faculty of Law.</i> —LL.B. <i>Faculty of Commerce.</i> —B.Com.
8. Bareilly College, Bareilly. ( <i>Principal</i> : Mr. A. C. Dutt, M.A.)	<i>Faculty of Arts.</i> —M.A. in English, Hindi, Urdu, Economics and Mathematics; B.A. in English, Philosophy, Economics, History, Mathematics, Sanskrit, Persian, Hindi, Urdu and Political Science. <i>Faculty of Science.</i> —M.Sc. in Mathematics; B.Sc. in Mathematics, Physics and Chemistry. <i>Faculty of Law.</i> —LL.B.
9. Government College, Ajmer. ( <i>Principal</i> : Mr. P. Seshadri, M.A., O.B.E.)	<i>Faculty of Arts.</i> —B.A. in English, Sanskrit, History, Philosophy, Persian, Economics and Mathematics. <i>Faculty of Science.</i> —B.Sc. in Mathematics, Physics, Chemistry, Botany and Zoology.

- | <i>Name of College with name of Principal</i>  | <i>Subject and Examination for which each College is recognized by the University.</i>  |
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| 10. D. A.-V. College, Cawnpore. (Principal: Mr. Kalka Prasad Bhatnagar, M.A., LL.B.) | <p><i>Faculty of Arts.</i>—M.A. in English, Hindi, Mathematics, Political Science, Philosophy and Economics; B.A. in English, History, Hindi, Sanskrit, Persian, Economics, Philosophy, Mathematics and Political Science.</p> <p><i>Faculty of Science.</i>—M.Sc. in Mathematics; B.Sc. in Mathematics, Physics and Chemistry.</p> <p><i>Faculty of Law.</i>—LL.B.</p> <p><i>Faculty of Commerce.</i>—B.Com.</p> |
| 11. Victoria College, Gwalior. (Principal: Mr. B. A. English, B.A.)                  | <p><i>Faculty of Arts.</i>—B.A. in English, Philosophy, History, Economics, Persian, Mathematics, Sanskrit, Marathi, Hindi, Geography and Political Science.</p> <p><i>Faculty of Science.</i>—B.Sc. in Mathematics, Physics, Chemistry, Botany and Zoology.</p>  |
| 12. St. Andrew's College, Gorakhpur. (Principal: Mr. S. C. Chatterji, M.A., M.L.A.)  | <p><i>Faculty of Arts.</i>—B.A. in English, Hindi, Urdu, Persian, Sanskrit, Philosophy, History, Political Science, Mathematics and Economics.</p>  |
| 13. Christ Church College, Cawnpore. [Principal: Rev. J. T. Thorne, M.A. (Cantab.)]  | <p><i>Faculty of Arts.</i>—M.A. in Political Science and Mathematics; B.A. in English, Philosophy, History, Economics, Mathematics, Persian, Sanskrit, Hindi, Urdu and Political Science.</p> <p><i>Faculty of Science.</i>—M.Sc. in Mathematics.</p>   |
| 14. Jaswant College, Jodhpur. (Principal: Mr. P. P. Shahani, M.A.)                   | <p><i>Faculty of Arts.</i>—B.A. in English, Philosophy, Mathematics, Economics, History, Hindi and Sanskrit.</p>  |
| 15. Agricultural College, Cawnpore. (Principal: Dr. T. S. Sabnis, D.Sc., I.A.S.)     | <p><i>Faculty of Agriculture.</i>—B.Sc. (Ag.).</p>  |
| 16. Dungar College, Bikaner. (Principal: Mr. M. N. Tolani, M.A.)                     | <p><i>Faculty of Arts.</i>—B.A. in English, History, Economics, Philosophy, Mathematics, Sanskrit and Hindi.</p>  |

<i>Name of College with name of Principal</i>	<i>Subject and Examination for which each College is recognized by the University.</i>
17. Mayo College, Ajmer. ( <i>Principal</i> : Mr. V. A. S. Stow, M.A., C.I.E., V.D., I.E.S.)	<i>Faculty of Arts.</i> —B.A. in English, Hindi, History, Political Science, Economics and Military Science.
18. Kamla Raja Girls' College, Gwalior. [ <i>Principal</i> : Dr. (Mrs.) G. D. Mathur, Ph.D.]	<i>Faculty of Arts.</i> —B.A. in English, History, Economics, Hindi, Marathi and Sanskrit.
19. Balwant Rajput College, Agra. ( <i>Principal</i> : Dr. R. K. Singh, M.A., D.Ed.)	<i>Faculty of Agriculture.</i> —B.Sc. (Ag.).
20. Medical College, Agra. ( <i>Principal</i> : Major-General H. C. Buckley, C.S.I., I.M.S.).	<i>Faculty of Medicine.</i> —M.B., B.S.
21. Teachers' Training College, Ajmer. [ <i>Principal</i> : Mr. Habibul Rahman, M.A., M.A.Ed. (Birmingham)]	<i>Faculty of Arts.</i> —B.T.
22. K. E. M. Udaibhan Jat College, Lakhaoti. ( <i>Principal</i> : Dr. B. Singh, M.Sc., Ph.D., D.I.C.)	<i>Faculty of Arts.</i> —B.A. in English, History, Political Science, Economics, Philosophy, Hindi and Urdu. <i>Faculty of Agriculture.</i> —B.Sc. (Ag.).

Detailed information regarding the staff, the hostels attached to the colleges, libraries, laboratories and museums, fees, free-ships, prizes and medals, bursaries and scholarships can be obtained from the prospectus of each college, or by correspondence with the Principal.

## Degrees, Admission to Examinations and Courses of Study

### DEGREES

In the Faculty of Arts, the University grants at present the B.A., M.A., B.T., Ph.D., and D.Litt. degrees; and in the Faculty of Science the B.Sc., M.Sc., Ph.D., and D.Sc. degrees. The Professional degrees are the B.Sc. (Pharm.) in the Faculty.

of Science, the Master of Laws and the Bachelor of Laws in the Faculty of Law, the Bachelor of Commerce in the Faculty of Commerce, the Bachelor of Science in Agriculture in the Faculty of Agriculture and the Bachelor of Medicine and Bachelor of Surgery (M.B., B.S.) in the Faculty of Medicine.

## Admission to Examinations and Period of Study

### ARTS AND SCIENCE

Courses of study for the Bachelor's degree (excluding the B.T. degree) in Arts or in Science extend over a period of two academic years and only those candidates are admitted to the examinations, which are held at the end of the second academical year who, after passing (i) the Intermediate Examination of the Board of High School and Intermediate Education, United Provinces or of the Board of High School and Intermediate Education for Rajputana (including Ajmer-Merwara), Central India and Gwalior or of an Indian University incorporated by any law for the time being in force, or (ii) the Higher School Certificate Examination conducted by the Syndicate of the Cambridge University, have attended a regular course of study in an affiliated college.

Courses of study for the B.T. degree extend over a period of one academical year and only those candidates are admitted to the examination who, after taking the Bachelor's or Master's degree of this or some other recognized University, have completed a regular course of study in a college affiliated or recognised for the purpose by the University.

The courses of study for the Master's degree in Arts as well as in Science extend over a period of two years and there are two examinations, *viz.*, the Previous Examination and the Final Examination. The Previous Examination is held at the end of the first year and only those candidates are allowed to appear at the examination who, after taking the Bachelor's degree of the University (in Arts, Science, Commerce or in Agriculture, as the case may be), or a corresponding Bachelor's degree of an Indian University incorporated by any law for the time being in force, have completed a regular course of study in an affiliated college for one academical year. A candidate is not admitted to the Final Examination for the degree of Master of Arts or of Master of Science unless he has passed the Previous M.A. or M.Sc. Examination of the University, as the case may be, and has completed a regular course of study for one academical year in an affiliated college.

The Ph.D. degree is awarded on the basis of research work extending over a period of two years carried on in a college affiliated to the University or in any institution recognised for

the purpose by the University under a supervisor to be nominated by the Executive Council. Only M.A.'s or M.Sc.'s, as the case may be, of this University or of any other University recognised for this purpose by the Agra University, are qualified to carry on research work for the PH.D. degree and must be of at least three years' standing before their thesis can be approved and the degree of PH.D. conferred upon them.

The degree of D.LITT. or D.Sc. is awarded on the basis of an original thesis upon any subject comprised within the Faculties of Arts and Science respectively. Only Doctors of Philosophy of at least two years' standing can supplicate for the D.LITT. or D.Sc. degree. Masters of Arts or Science of this or any other recognised University of at least five years' standing can also supplicate, provided the Research Degree Committee grants them exemption from the PH.D. degree consequent to any work they may have published.

#### BACHELOR OF SCIENCE IN PHARMACEUTICAL CHEMISTRY

Admission to the B.Sc. (PHARM.) Examination is granted to those who, after passing the Intermediate Examination of the Board of High School and Intermediate Education, United Provinces, or of an Indian University incorporated by any law for the time being in force, or an examination recognised by the University as equivalent thereto, with Chemistry, Physics and Biology, have attended a regular course of study in Pharmaceutical Chemistry in an affiliated college for two academical years.

#### LAW

The examination for the degree of Bachelor of Laws consists of two parts: (1) The Previous Examination, and (2) the Final Examination. A candidate who, after graduating either in Arts, Science, Commerce or Agriculture, completes a regular course of study in a Law class in an affiliated college for one academical year, is eligible for admission to the Previous Examination in Law. For admission to the Final Examination in Law, a candidate is required to put in another year in an affiliated college after passing the Previous Examination in Law.

Candidates for the LL.M. Examination must have passed at least two years previously the examination for the degree of Bachelor of Laws of the University or of any other Indian University incorporated by any law for the time being in force.

#### COMMERCE

Admission to B.COM. Examination is granted to those who, after passing any of the following examinations, have

prosecuted a regular course of study at a college affiliated to the University for the B.Com. degree:—

- (i) The Intermediate Examination of the Board of High School and Intermediate Education, U.P., or of an Indian University incorporated by any law for the time being in force;
- (ii) the Commercial Diploma Examination of the Allahabad University or of the Board of High School and Intermediate Education, U.P.;
- (iii) the Intermediate Examination in Commerce of the Board of High School and Intermediate Education, United Provinces, or of the Board of High School and Intermediate Education, Rajputana, (including Ajmer-Merwara), Central India and Gwalior:

Provided that the candidates who have passed the examinations mentioned in clauses (ii) and (iii) or any other examination conducted by any Indian University incorporated by any law for the time being in force, which may be recognised by the Executive Council as equivalent to any of the examinations mentioned in clauses (ii) and (iii) above shall be exempted from taking the First Year Bachelor of Commerce course.

The regular course extends over a period of three years and the examination for the degree is taken after that period.

#### AGRICULTURE

Admission to the B.Sc. (Ag.) Examination is granted to those who, after passing the Intermediate Examination in Agriculture of the Board of High School and Intermediate Education, United Provinces, or any other examination in Agriculture recognised by the University as equivalent thereto, have attended a regular course of study in an affiliated college for two academical years.

#### MEDICINE

The examination for the degree of M.B., B.S. consists of three parts:

- (1) The First M.B., B.S. Examination,
- (2) The Second M.B., B.S. Examination, and
- (3) The Final M.B., B.S. Examination.

A candidate who, after passing the Intermediate Examination of the Board of High School and Intermediate Education, U.P., or Rajputana, with Physics, Chemistry (including Organic Chemistry) and Biology, or of an Indian University incorporated by any law for the time being in force, with the same group of subjects as mentioned above, or any other examination recognised by the University as equivalent thereto,

has attended a regular course of study in an affiliated college for two academic years, and has attained the age of 17 years by the 31st of December of the year of his admission, shall be eligible for appearing at the First M.B., B.S. Examination. A candidate for the Final M.B., B.S. Examination must have attended a regular course of study for 3 years after passing the First M.B., B.S. Examination and must have passed the Second M.B., B.S. Examination at least one year before the Final M.B., B.S. Examination. The Second M.B., B.S. course extends over a year and the candidate can appear in the examination one year after the First M.B., B.S. Examination and not later than a year previous to his application for admission to the Final M.B., B.S. Examination.

### Subjects and Papers for the Examinations and Scale of Marks

*Bachelor of Arts.*—Candidates are examined in General English and *any three* of the following branches: (a) English Literature, (b) Latin, Greek, Hebrew, Arabic, Persian or Sanskrit, (c) Hindi, Urdu, Marathi, Gujarati, Bengali, French, German or Italian, (d) Mathematics, (e) Philosophy, (f) Economics, (g) History, (h) Political Science, and (i) Geography. The examination in General English consists of two papers. Three papers are set in English Literature, in each of the Classical and Modern Languages and in Mathematics and two papers each in Philosophy, Economics, History, Political Science and Geography.

The minimum for a pass in all subjects is 33 per cent. There are three divisions: Candidates are declared to have passed in the First Division if they obtain 60 per cent. or more of the aggregate, in the Second, if they obtain 45 per cent. or more, and in the Third, if they obtain the minimum pass marks in each subject.

Candidates may, at their option, take Military Science as an extra subject in which there are two papers and one practical of 50 marks each. For a pass in this subject candidates must obtain 45 marks in the two papers and 17 marks in the practical.

Candidates may also at their option take an additional paper on one of the vernaculars recognised by the University for the B.A. Examination.

*Master of Arts.*—A candidate may select *one* of the following subjects: (1) Languages: English, Sanskrit, Arabic, Persian, Latin, Urdu or Hindi, (2) Mental and Moral Science, (3) History, (4) Mathematics, (5) Economics, and (6) Political Science.

At the Previous Examination, there are four papers in English Literature, Sanskrit, Arabic, Persian, Hindi, Urdu, Mathematics and Economics and three papers in Latin, History, Political Science, and Mental and Moral Science. For the Final Examination four papers are set in English Literature, Arabic, Persian, Sanskrit, Hindi, Urdu, Economics, Mental and Moral Science, History and Political Science and three papers in Latin. There is a *viva voce* at the Final Examination in English Literature and Modern European Languages.

The minimum pass marks in all the subjects are 36 per cent. of the aggregate marks. Candidates who obtain 60 per cent. or more of the aggregate are placed in the First Division and those who obtain 48 per cent. or more in the Second Division.

*Bachelor of Science.*—Candidates are examined in either of the two groups: (a) Physics, Chemistry and Mathematics, or (b) Chemistry, Botany and Zoology. There are two papers and a practical examination in each subject except Mathematics in which three papers are set. Economics also has been introduced as an optional subject for the B.Sc. Examination. A candidate, may at his option, take General English as an extra subject in which there are two papers.

The minimum for a pass in all subjects is 33 per cent. There are three divisions: The First Division consists of those who obtain 60 per cent. or more of the aggregate, the Second of those who obtain 45 per cent. or more, and the Third of those who obtain the minimum pass marks in each subject.

Candidates may at their option, also take Military Science as an extra subject in which there are two papers and one practical of 50 marks each. For a pass in this subject candidates must obtain 45 marks in the two papers and 17 marks in the practical.

*Master of Science.*—Candidates must offer one of the following subjects:—(a) Mathematics, (b) Physics, (c) Chemistry, (d) Botany, and (e) Zoology. At the Previous Examination there are three papers and a practical examination in Physics, Botany, Zoology and Chemistry. In Mathematics the examination consists of four papers. At the Final Examination four papers are set in Mathematics, three papers in Zoology and Physics, and two papers and a thesis in Chemistry and Botany with a practical examination in each subject except Mathematics.

The minimum for a pass is 36 per cent. in each subject, 60 per cent. or more of the aggregate places a candidate in the First Class and 48 per cent. or more, in the Second Class.



### Professional Examinations

*Bachelor of Teaching.*—Every candidate shall be required to show a competent knowledge of the following:—

- (1) Principles of Education.
- (2) School Organisation and Hygiene.
- (3) Methods of Teaching: (a) General Methods;  
(b) Methods of Teaching school subjects.
- (4) History of Education.
- (5) Practical skill in Teaching.

The minimum for a pass is 36 per cent. with a minimum of 25 per cent. in each paper; 60 per cent. or more of the aggregate places a candidate in the First Division and 48 per cent. or more, in the Second Division.

*Bachelor of Science in Pharmaceutical Chemistry.*—The following are the subjects of study: (1) Pharmaceutical Chemistry, (2) Pharmacy, (3) Pharmacognosy, and (4) Elementary Human Physiology and Pharmacodynamics.

The examination is conducted by means of papers, but candidates are required to undergo a practical examination in each subject and to pass separately in that examination.

The minimum for a pass in each subject is 33 per cent. There are three divisions: The First Division consists of those who obtain 60 per cent. or more of the aggregate marks, the Second of those who obtain 45 per cent. or more and the Third of those who obtain the minimum pass marks in each subject.

Candidates may, at their option, also take General English or Military Science, or both as extra subjects.

*Bachelor of Laws.*—The subjects of the Previous Examination are: (1) Roman Law, (2) The Law of Contracts, (3) The Law of Easements and Torts, (4) The Law of Evidence, (5) Criminal Law and Procedure, and (6) Constitutional Law. The following are the subjects for the Final Examination: (i) Civil Procedure, (ii) The Law relating to the Land Tenures, Rent and Revenue in the United Provinces of Agra and Oudh or Central Provinces Rent and Revenue Laws, (iii) Hindu Law, (iv) Mohammedan Law, (v) The Law relating to Transfer of Property, (vi) Equity with special reference to Trusts and Specific Relief, and (vii) Jurisprudence.

The examination is conducted by papers. The minimum for a pass is 36 per cent. in each subject. Those who obtain 60 per cent. of the aggregate are placed in the First Class and those obtaining 48 per cent. in the Second Class.

*Master of Laws.*—Candidates for the degree of Master of Laws shall be examined in the following compulsory subjects, with such combination for the two optional subjects as an intending candidate adopts:—

### COMPULSORY SUBJECTS

- I. Jurisprudence and Principles of Legislation.
- II. Constitutional Law, British and Indian.
- III. Roman Law.
- IV. Either (a) Hindu Law, or (b) Mohammedan Law.

### OPTIONAL SUBJECTS

Only two out of these may be taken:—

- I. Hindu or Mohammedan Law, whichever is not chosen as a compulsory subject.
- II. The Law of Contracts.
- III. Transfer of Immovable Property and Easements.
- IV. Equity.
- V. International Law, Public and Private.
- VI. Wills and Administrations.

There shall be assigned to each paper 100 marks. Candidates who obtain not less than 50 per cent. of the marks assigned to each subject and not less than 60 per cent. of the aggregate shall be declared to have passed the examination. There shall be no Class.

*Bachelor of Commerce.*—The following subjects are to be studied in the first year class: (1) English, (2) Elements of Economics, (3) Elements of Currency and Banking, (4) Book-Keeping and Accountancy, (5) Business Methods, and (6) Economic and Commercial Geography. The subjects to be studied in the second and third year classes are: (1) English (two papers), (2) Business Organisation, (3) Commercial and Industrial Law, (4) Statistics, (5) Principles of Economics, (6) Currency and Finance, (7) Modern Economic Development of India and England, and (8) one of the following special subjects containing three papers each: (a) Advanced Accountancy and Auditing, (b) Advanced Banking, (c) Geography, (d) Insurance, (e) Rural Economics, and (f) Secretarial Practice.

The minimum for a pass is 36 per cent. in each paper. Candidates who secure 60 per cent. or more of the aggregate are placed in the First Division, those who get 48 per cent. or more, in the Second Division.

*Bachelor of Science in Agriculture.*—Candidates are required to pass in Agriculture, Agricultural Chemistry and in one of the following subjects:—

- (1) Botany with Plant Pathology.
- (2) Botany with Plant Breeding.
- (3) Botany with Horticulture.
- (4) Zoology with Entomology and Parasitology.
- (5) Zoology with Animal Breeding.
- (6) Rural Economics and Estate Management.

There are five papers and four practical examinations in Agriculture, two papers and one practical examination in each of the other subjects.

The minimum for a pass is 33 per cent. in each subject except in Agriculture practicals in which it is 40 per cent. A candidate is required to pass in the total of the papers, as well as in the practical examination in each subject. There are three divisions: The First Division consists of those who obtain 60 per cent. or more of the aggregate, the Second of those who obtain 45 per cent. or more, and the Third of those who obtain the minimum pass marks in each subject.

*Bachelor of Medicine and Bachelor of Surgery.*—For the First M.B., B.S. Examination, candidates are required to pass in (1) Anatomy and (2) Physiology and Biochemistry; for the Second M.B., B.S. Examination in Pharmacology and Materia Medica; and for the Final M.B., B.S. in (1) Pathology and Bacteriology, (2) Hygiene and Public Health, (3) Jurisprudence, (4) Medicine, (5) Surgery, (6) Obstetrics and Gynæcology, and (7) Ophthalmology.

Minimum pass marks in each subject are 40 per cent. in theory and 50 per cent. in practicals with a minimum of 50 per cent. in the aggregate.

Candidates obtaining 75 per cent. or more of the marks in any one subject shall be deemed to have obtained distinction in that subject.

### Conditions of Re-Admission to University Examinations

A candidate who after attending a regular course of study for two academical years in an affiliated college fails *once* in the Final M.A. or M.Sc. or LL.B. or First, Second or Final M.B., B.S. Examination or who on account of serious illness has not been able to appear at the said examination, is allowed to appear again at a subsequent examination without attending any further regular course of study provided the Principal of the affiliated college recommends his application, which, in the case of a candidate's serious illness, shall be accompanied by a medical certificate.

A candidate who has attended a regular course of study in an affiliated college and who has failed once in a University

Examination, other than Final M.A. or M.Sc. or LL.B. or First, Second or Final M.B., B.S. Examination, may be permitted to re-appear at the next ensuing examination, without attending a further regular course of study, in case the Principal of the college certifies that either (a) he is unable to re-admit him as there is no vacancy in the class, or (b) in his opinion the candidate's health or pecuniary circumstances preclude him from joining the college. The application for re-admission to the college in such a case must be made and the Principal's certificate obtained within ten days of the commencement of the college session, at the end of which the candidate desires to appear at the said examination.

A candidate who has failed *more than once* in a University Examination from an affiliated college may be admitted to a subsequent examination without attending a regular course of study provided that he remains an ex-student of the affiliated college, in which he completed his course, and pays such annual fee to the college to retain his membership thereof, as the college may require.

Any candidate for B.A., B.Sc., B.Com., or B.Sc. (Ag.) Examination who has failed in *one* subject only obtaining not less than 25 per cent. of marks in that subject and has obtained 40 per cent. of the aggregate number of marks allotted to the remaining subjects is admitted to the examination of the following year in the subject in which he has failed and if he passes in that subject he is declared to have passed the examination.

### **Admission of Teachers, Inspectors in the Educational Department and Women Students to the Examinations of the University**

A teacher in an approved educational institution or an Inspecting Officer in the Departments of Education in U.P. or Rajputana, or C.I., or Gwalior, is also eligible for admission to University examinations if he has served continuously as a teacher or an Inspector for 18 months (in the case of B.A., B.Sc., or B.Com. Examination) or one academic year [in the case of the M.A. or M.Sc. (Previous or Final) Examination] and if he fulfils certain other special conditions.

Women candidates residing within the territorial limits of the University are allowed to appear at the examinations of the University except the B.T., B.Sc. in Pharmaceutical Chemistry, LL.B., B.Sc. (Ag.), and M.B., B.S. Examinations without attending a regular course of study in an affiliated college.

### Number of Students in the University

The number of students in the degree and post-graduate classes in the affiliated colleges of the University during the session 1940-41 was as follows:—

Arts and Science classes	..	3,145
Law classes	..	678
B.Com. classes	..	441
B.Sc. (Ag.) class	..	161
TOTAL		4,425

### Residence and Health

The students of the University are required to live either in a hostel or with their parents or guardians. The cost of living and the conditions of residence are different in different places, the details of which will be found in the prospectuses of the different colleges issued by the colleges every year.

The Board of Inspection is responsible for the periodical inspection of the hostels and every college is required to satisfy the Executive Council that the arrangements for the residence of students are satisfactory and that provision is made for the health and recreation of students.

### Military Training

There is a University Training Corps, the sanctioned strength of which is as follows:—

Agra	Officers 3, other ranks 113
Meerut	Officer 1, other ranks 55

### Scholarships and Medals

There is a large number of scholarships and freeships and medals awarded by each of the 22 affiliated colleges of the University to its own students, the details of which can be had from the prospectuses of the respective colleges.

Besides the scholarships awarded by the affiliated colleges, the University has instituted two research scholarships of Rs. 50 each tenable for 8 months in an affiliated college and the following post-graduate scholarships of Rs. 30 per mensem each to be awarded annually (each scholarship being tenable for two sessions) for precedence in the First or Second Division on the results of the degree examination concerned:—

- (1) Ten M.A. scholarships on the results of the B.A. Examination.
- (2) Six M.Sc. scholarships on the results of the B.Sc. Examination.

- (3) Two M.A. scholarships on the results of the B.Com. Examination.
- (4) One M.Sc. scholarship on the results of the B.Sc. (Ag.) Examination.

In addition to these scholarships there is also one endowed scholarship of Rs. 15 p.m. tenable for 22 months. The scholarship is awarded to a poor and deserving student who joins the University for the Bachelor's degree in any of the Faculties out of the interest of the donation of Rs. 4,607-2-6 bequeathed by the late Mr. Govind Das Gupta, a clerk in the Loco and Carriage Department of the B.B. & C.I. Railway, Ajmer, and is known as "Govind Das Gupta Scholarship".

The University has got seven endowed medals at present:—

1. *T. C. Jones Medal* endowed by the Agra College Staff Club in memory of Mr. T. C. Jones, the late Principal of the Agra College, to be awarded annually at the time of Convocation to the student who stands first in English in the B.A. Examination of the University.

2. *Krishna Kumari Debi Medal* endowed by Dr. Ganesh Prasad in memory of his daughter Krishna Kumari Debi to be awarded to that candidate in the Faculties of Arts and Science who obtains the highest percentage of marks in the Final Examination for the Degree.

3. *Krishna Kumari Debi Mathematics Medal* endowed by Dr. Ganesh Prasad in memory of his daughter to be awarded annually to that candidate who obtains the highest percentage of marks in the Final Examination for the Master's Degree in Mathematics, provided that he gets at least 60 per cent. of the marks in the aggregate.

4. *Seshadri Medal* endowed by Mr. P. Seshadri, M.A., O.B.E., Principal, Government College, Ajmer, to be awarded annually to the candidate who obtains the highest percentage of marks in English Literature in the Final M.A. Examination.

5. *Shrimati Umang Lakshmi Kanti Lal Pandya Medal* endowed by Dr. K. C. Pandya, Professor of Chemistry, St. John's College, Agra, in memory of his wife Shrimati Umang Lakshmi, to be awarded annually to the candidate who passes the B.Sc. Examination with the highest marks in Chemistry.

6. *Azizuddin Malcolm-Hailey Medal* endowed by K. B. Kazi Sir Azizuddin Ahmad, Dewan, Datia State, to be awarded annually to the candidate who obtains the highest percentage of marks either in Sanskrit or in Persian (*in alternate years*) in the B.A. Examination.

7. *Nit Kishore Mchira-Durrant Haythornthwaite Medal* endowed by Rai Sahib Nit Kishore Mehira, B.A., LL.B., Advocate,

Agra, to be awarded annually to that candidate who obtains the highest percentage of marks in Criminal Law at the Previous L.L.B. Examination.

### Examinations held in April 1941

The following Examinations of the University were held in March-April 1941:—

			No. of candidates appearing
B.A.	..	..	1,939
B.Sc.	..	..	255
M.A. (Previous)	..	..	546
M.A. (Final)	..	..	342
M.Sc. (Previous)	..	..	69
M.Sc. (Final)	..	..	44
L.L.B. (Previous)	..	..	522
L.L.B. (Final)	..	..	301
B.Com.	..	..	209
B.Sc. (Ag.)	..	..	45
First M.B., B.S.	..	..	58
TOTAL			4,330

### Budget: Provident Fund

The University is maintained mainly by (a) Government grant, (b) its own income from fees. The income during the last financial year was Rs. 1,83,736-6-6. Rs. 39,000-0-0 from Government grant and Rs. 1,44,736-6-6 from other sources as against an expenditure of Rs. 1,70,997-6-6. At the close of the year, a sum of Rs. 12,000 was paid back to the Reserve Fund and the year closed with a credit balance of Rs. 3,354-13-8. In the General Reserve Fund, G. P. Notes of the face value of Rs. 44,000 are in the safe custody of the Imperial Bank of India, Agra, and a sum of Rs. 41,000 is in fixed deposits, with the Imperial Bank of India with a contingent liability of Rs. 265 on account of security deposits from college students against issue of library books.

The University has a Provident Fund to which every servant of the University is compelled to subscribe at the rate of 8 per cent. of his salary per month, the University contributing at the rate of 12 per cent. in the case of subscribers drawing a salary of Rs. 500 or less, 10 per cent. in the case of subscribers drawing a salary of more than Rs. 500 but not exceeding Rs. 1,000 and 8 per cent. in the case of subscribers drawing a salary of over Rs. 1,000.

## Recognition of the Degrees of the University by Other (Foreign) Universities and Bodies

1. *Cambridge University*.—The Cambridge University has approved the Agra University for the purpose of exemption from the Previous Examination by Indian certificates; and a B.A. or B.Sc. at the Agra University who has secured a first or a second division at the Examination, can be exempted from the Previous Examination of the Cambridge University, provided he has passed the B.A. or B.Sc. Examination with English and (a) Arabic, Persian or Sanskrit, or (b) Mathematics or Science.

Agra University has also been recognised as an associated institution.

2. *Oxford University*.—The B.A. and B.Sc. Degrees of the Agra University have been approved by the Hebdomadal Council of the University of Oxford for the purposes of Statute Title VI, Section I, Class 2-H; and a B.A. or B.Sc. of the Agra University is qualified for exemption from Responsions, provided he produces evidence that his course at the Agra University included the study of English and one of the following languages, *viz.*, Latin, Greek, French, German, Sanskrit, Arabic and Persian.

3. *London University*.—The Agra University has been added to the schedule of Universities whose graduates are eligible under Statute 116 for exemption from the Matriculation Examination of the London University.

4. *Institute of Chartered Accountants, London*.—The B.Com. Degree of the Agra University has been approved by the Council of the Institute of Chartered Accountants, London, for purposes of exemption from the preliminary examination of the Institute.

5. *Scottish Universities Entrance Board*.—The Board have placed the Agra University on their list of approved Universities, *i.e.*, the holder of a degree granted by the Agra University will be granted the certificate of fitness by the Board.

6. *Council of Legal Education in England, London*.—The Council has added the Agra University to the list of Universities approved by the Council, pursuant to para 1 of the schedule to the consolidated regulations, and the Universities Degree Examinations would qualify for admission to any one of the four Inns of Court.

7. *University of Wales* has recognised the Agra University for the purpose of the Matriculation of the students and their admission to candidature for a post-graduate degree or a diploma.

8. *University of Dublin* has extended recognition to the Agra University.



**Scale of Examination and Enrolment Fees****(a) FOR ADMISSION TO EXAMINATIONS**

	Rs.
1. B.A. .. ..	30
2. M.A. (Previous) .. ..	20
3. M.A. (Final) .. ..	30
4. B.Sc. or B.Sc. (Ag.) .. ..	30
5. M.Sc. (Previous) .. ..	20
6. M.Sc. (Final) .. ..	30
7. PH.D. .. ..	150
8. D.LITT., D.Sc. or LL.D. .. ..	200
9. LL.B. (Previous) .. ..	20
10. LL.B. (Final) .. ..	40
11. LL.M. .. ..	100
12. B.Com. .. ..	30
13. B.Sc. (Ag.) .. ..	30
14. B.T. .. ..	50
15. First M.B., B.S. .. ..	25
16. Second M.B., B.S. .. ..	15
17. Final M.B., B.S. .. ..	90
18. For appearing in one subject at the B.A., B.Sc. or B.Com. Examination or at a Certificate Examination .. ..	15

**(b) MISCELLANEOUS**

19. Enrolment fee .. ..	2
20. Fee for the re-totalling of marks .. ..	10
21. Fee for obtaining marks obtained at a Univer- sity Examination .. ..	1

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# **Aligarh Muslim University**

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## **Introductory**

The Aligarh Muslim University owes its origin to the Aligarh movement which was started and led by the late Sir Syed Ahmad Khan in the latter part of the last century. As a result of his efforts the late Muhammadan Anglo-Oriental College was opened at Aligarh in 1875, and it soon developed in reputation and numbers till in 1895 the number of students in the college and school rose to 565 and when, in March 1898, its great founder died, it had attained a prominent position in the whole country. Soon after, in 1899, attempts were made to collect funds for rising the College to the status of a University. The necessary funds were collected and after some delay the Aligarh Muslim University Act came into force in December 1920.

## **Character of the University**

It is a residential and teaching University. The teaching in each subject is regulated by the department concerned. Provision is also made for tutorial instruction after the manner of the tutorial system prevalent in the Oxford University.

## **Officers and Staff of the University**

### **LORD RECTOR**

His Excellency the Viceroy and Governor-General of India.

### **CHANCELLOR**

His Exalted Highness Lieut.-General Asif Jah, Muzaffar-ul-Mulk-wal-Mumalik, Nizam-ul-Mulk, Nizam-ud-Doula, Sultan-ul-Uloom, Nawab Mir Sir Usman Ali Khan Bahadur, Fateh Jang, G.C.S.I., G.B.E.,  
Hyderabad (Deccan).

### **PRO-CHANCELLOR**

Captain H. H. Alijah Farzand-i-Dilpizir-i-Daulati-Inglishia,  
Mukhlis-ud-Daula, Nasir-ul-Mulk, Amir-ul-Umara,  
Nawab Dr. Sir Mohammad Raza Ali Khan  
Bahadur Mustaid-i-Jung, Ruler of Rampur.

## VICE-CHANCELLOR

Dr. Sir Ziauddin Ahmad, Kt., C.I.E., M.A., Ph.D., D.Sc., M.L.A.

## PRO-VICE-CHANCELLOR

Mr. A. B. A. Haleem, B.A. (Oxon.), Bar-at-Law.

## TREASURER

K. B. Moulvi Mohd. Obedur Rahman Khan Sahib Sherwani,  
M.L.A.

## REGISTRAR

Mr. A. E. Zuberi, B.A., LL.B.

## PROVOST, S. S. HALL

Dr. S. Hadi Hasan, B.A. (Cantab.), Ph.D. (Lond.).

## PROVOST, V. M. HALL

Dr. S. M. Tahir Rizvi, B.A. (Hons.), Ph.D. (Lond.),  
M.A., LL.B. (Alig.), Bar-at-Law.

## PROVOST, AFTAB HALL

Mr. Ghulam Sarwar, M.A. (Pb.), M.A. (Leeds).

## PROCTOR

Mr. S. M. Shafi, B.A. (Alld.), B.Sc. (Lond.), Bar-at-Law.

## LIBRARIAN

Mr. Syed Bashiruddin, M.A.

## MEDICAL OFFICER

Dr. Aziz Ahmad, M.B.B.S., Ch.B. (Edin.), D.O.M.S. (Lond.).

## TEACHERS

- |                               |    |  |
|-------------------------------|----|--|
| English                       | .. | Mr. F. J. Fielden, M.A., Professor, two Readers, three Lecturers, six Lecturers, Grade II, and two Lady Lecturers, Grade II.   |
| History and Political Science |    | Mr. A. B. A. Haleem, B.A. (Oxon.), Bar-at-Law, and Mr. Mohammad Habib, B.A. (Oxon.), Bar-at-Law, Professors, four Lecturers, two Lecturers, Grade II, and one Lady Lecturer, Grade II. |

Economics	.. Dr. L. K. Hyder, B.A., Ph.D., C.I.E., Professor, three Lecturers, one Lecturer, Grade II, and one Lady Lecturer, Grade II.
Philosophy	.. Dr. Syed Zafarul Hasan, M.A., Ph.D. (Erlangen), D.Phil. (Oxon.), Professor, one Reader, two Lecturers and two Lecturers, Grade II.
Physics	.. Professor ( <i>Vacant</i> ), Dr. Mohd. Ishaque, M.A., M.Sc., B.T., Ph.D. (Lond.), and Dr. R. M. Choudhuri, M.Sc., Ph.D. (Cantab.), Readers, two Lecturers, one Lecturer, Grade II, and two Demonstrators.
Chemistry	.. Professor ( <i>Vacant</i> ), Mr. M. Haidar, M.A. (Cantab.), B.Sc. (Lond.), Reader, three Lecturers, one Lecturer, Grade II, and three Demonstrators.
Mathematics	.. Dr. Sir Ziauddin Ahmad, M.A., Ph.D., D.Sc., C.I.E., M.L.A. (Honorary Professor), Mr. A. M. Kureishy, M.A., Reader, four Lecturers and two Lecturers, Grade II.
Geography	.. Dr. S. M. Tahir Rizvi, B.A. (Hons.), Ph.D. (Lond.), M.A., LL.B. (Alig.), Bar-at-Law, Dr. Kazi Saiduddin Ahmad, M.A., LL.B. (Alig.), Ph.D. (Lond.), Readers, two Lecturers, four Lecturers, Grade II, one Lady Lecturer, Grade II, and two Demonstrators.
Arabic	.. Professor ( <i>Vacant</i> ), Moulvi Abdul Aziz Memon Sahib, Reader, Dr. S. Abid Ahmed Ali, M.A., D.Phil. (Oxon.), (Temp. Reader), one Lecturer and one Lecturer, Grade II.
Persian	.. Dr. S. Hadi Hasan, B.A. (Cantab.), Ph.D. (Lond.), Professor, one Reader, one Lecturer, two Lecturers, Grade II, and one Lady Lecturer, Grade II.
Sanskrit	.. One Lecturer, Grade II.
Urdu	.. Mr. Rashid Ahmad Siddiqui, M.A., Reader, one Lecturer, three Lecturers, Grade II, and one Lady Lecturer, Grade II.
Sunni Theology	.. Mufti Syed Abdul Latif Sahib, Reader, one Lecturer and one Lecturer, Grade II.

Shia Theology	..	One Lecturer and one Lecturer, Grade II.
Law	..	Mr. M. I. Khusro, M.A. (Cantab.), Bar-at-Law, Reader, two Lecturers and four part-time Lecturers.
Botany	..	Dr. R. A. Khan, M.Sc., Ph.D. (Cantab.), Reader, one Lecturer, one Lecturer, Grade II, and two Demonstrators.
Zoology	..	Dr. M. B. Mirza, D.Phil.Nat. (Frankfurt), B.Sc. (Bom.), F.R.M.S. (Lond.), F.I.A.S., Reader, one Lecturer, one Lecturer, Grade II, and two Demonstrators.
Education	..	Mr. K. G. Saiyidain, B.A., M.Ed. (Leeds), Professor ( <i>on leave</i> ), Mr. W. H. Siddiqi, B.A., L.T., Temporary Reader, four Lecturers, two Lecturers, Grade II, and one Lady Lecturer, Grade II.
* Medicine and Surgery (Unani)	Dr. A. Butt, M.B., B.S. (Pb.), M.D. (Berlin), Principal, four Lecturers, one Demonstrator and six other teachers.	
Technology	..	K. B. Abdur Rahman, I.S.E. (Retd.), Dr. Shiv Narayan, I.E.S. (Retd.), SC.D., B.E., M.A., M.I.E. (Ind.), M.I.E.E. (Lond.), (Chartered Electrical Engineer), Professors, one Reader, Mr. U. Durrani, B.Sc., Assoc.E.E. (Sheffield), grad.I.E.E. (Lond.), A.M.I.R.E., Superintendent, six Lecturers and two Demonstrators.

### Constitution of the University

The principal authorities of the University are the Court, the Executive Council, the Academic Council, the Standing Finance Committee and Departments of Studies.

The Vice-Chancellor is the principal executive officer and the Pro-Vice-Chancellor is the principal academic officer of the University.

All appointments on the teaching staff are made by the Executive Council from a list of persons recommended by the committee of appointments consisting of the Vice-Chancellor, the Pro-Vice-Chancellor, the Treasurer and the Chairman of the Department of Study concerned and three other persons appointed by the Academic Council.

\* This is done in the Tibbiya College which is a separate allied institution.

### Number of Students in the University under the Different Faculties

	Boys	Girls
Post-Graduate M.A., M.Sc., LL.B. and B.T.H. (Final and Previous) ..	669	8
B.A. and B.Sc. (Pass and Hons.) ..	661	30
B.T. ..	75	10
Intermediate in Arts and Science ..	647	..
B.Sc. (Engineering) ..	25	..
<b>TOTAL</b> ..	<b>2,077</b>	<b>48</b>

### Number of Successful Candidates in the Different Examinations, held in the year 1941 .

	Boys	Girls
High School Examination ..	196	36
Intermediate Examination ..	255	24
B.A. and B.Sc. (Pass) ..	180	11
B.A. (Hons.) ..	4	..
M.A. and M.Sc. ..	110	1
Law (Previous) ..	135	..
Law (Final) ..	114	..
B.T. (Theory) ..	70	..
B.T. (Practice) ..	70	..
B.T.H. (Previous) ..	3	..
B.T.H. (Final) ..	2	..
PH.D. ..	..	..
<b>TOTAL</b> ..	<b>1,139</b>	<b>72</b>

### Scholarships

There are a number of scholarships available for students. All scholarships are awarded under the University Regulations and are liable to be forfeited for idleness or misconduct. Scholarships will be given only for the months for which the tuition fee is charged.

#### I. SCHOLARSHIPS FOR SPECIAL SUBJECTS

##### *A—Arabic:*

(a) One Research Scholarship of Rs. 50 per mensem to an M.A. in Arabic carrying on Research Work in the subject as a PH.D. student of the University.

*N.B.*—This Scholarship will be awarded for a period of 2 years as a debt of honour after due advertisement but will be liable to be stopped on the Report of the Chairman of the Department if the progress of the student is not satisfactory.

(b) One M.A. Scholarship of Rs. 25 per mensem to a student studying Arabic in the M.A. Class.

(c) Two stipends of Rs. 25 per mensem each, called Latouche-Mumtaz Arabic Scholarships, to students studying Arabic in the M.A. Class, to be awarded as debts of honour.

(d) Four Scholarships of Rs. 8 per mensem each to students taking up Arabic in the B.A. Class.

(e) Four Scholarships of Rs. 6 per mensem each to students taking up Arabic in the Intermediate Class. These will be awarded for 18 months only,

#### *B—Islamic Studies:*

One Scholarship of Rs. 10 per mensem to a student of the B.A. (Junior) Class taking Arabic with Islamic History.

One Scholarship of Rs. 10 per mensem to a student of the B.A. (Junior) Class taking Arabic with Muslim Philosophy.

*N.B.*—The above two Scholarships are temporarily added to the Arabic Scholarships until the Department of Islamic Studies is revived.

#### *C—Theology:*

Three Scholarships of Rs. 25 per mensem each to students reading in the B.Th. (Previous) Class.

Three Scholarships of Rs. 25 per mensem each to students reading in the B.Th. (Final) Class.

#### *D—Sanskrit:*

One Scholarship of Rs. 10 per mensem, to a Muslim student taking up Sanskrit in the B.A. Class and one of Rs. 8 per mensem to a Muslim student taking up Sanskrit in the Intermediate Class.

*N.B.*—All Arabic Scholarships and stipends will be awarded by the Academic Council on the basis of a Competitive Examination. Other Scholarships will be awarded on the recommendation of the Chairman of the Department concerned through the Pro-Vice-Chancellor.

#### *E—Science:*

(a) One M.Sc. Scholarship of Rs. 10 per mensem.

(b) Five B.Sc. Scholarships, each of Rs. 6 per mensem, to students of the Third Year Class studying for the B.Sc. Degree Pass or Honours.

These Scholarships will be awarded by the Academic Council on the recommendation of a Committee consisting of the Chairman of the Department of Physics, Chemistry, Zoology, Botany, Mathematics and Geography after a competitive examination to be held within six weeks of the commencement of the session on dates to be fixed by the Pro-Vice-Chancellor. Only First and Second divisioners will be eligible for appearing at this competitive examination.

## II. UNIVERSITY MERIT SCHOLARSHIPS

- (1) *To Aligarh graduates, joining the M.A. Class and not taking up Law (except with the permission of the Pro-Vice-Chancellor and the Chairman of the Department of Studies concerned) :*

One Scholarship of Rs. 25 and one of Rs. 20 to those standing highest in the B.A. Examination provided that a Scholarship of Rs. 25 will be awarded only to a student placed in the First Division and failing such a candidate, two Scholarships of Rs. 20 will be awarded.

One Scholarship of Rs. 25 to the best First Class Honours Graduate of the year, the Scholarship to be awarded by the Academic Council on the recommendation of the Chairman of the Departments concerned; failing such a candidate, a Scholarship of Rs. 15 to the best Second Class Honours Graduate.

- (2) *To Aligarh graduates joining the M.Sc. Class:*

Three Scholarships, as in (1) above.

- (3) *One Scholarship of Rs. 20 to the student passing highest at the LL.B. Previous Examination and joining the Final Class.*

- (4) *To students who have passed the Intermediate Examination (Arts) as regular students, joining the B.A. Class:*

Three Scholarships of Rs. 20, Rs. 15 and Rs. 8 per mensem respectively to those standing highest in the Examination provided that a Scholarship of Rs. 20 will be awarded only to a student who is placed in the First Division and failing such a candidate, two Scholarships of Rs. 15 each and one of Rs. 8 will be awarded.

- (5) *To students who have passed the Intermediate Examination (Science) as regular students joining the B.Sc. Class:*

Three Scholarships, as in (4) above.

- (6) *To students who have passed the High School Examination as regular students and join the Intermediate Class:*

One Scholarship of Rs. 15 per mensem and two of Rs. 10 per mensem each, to those standing highest in the Examination provided that the Scholarship of Rs. 15 per mensem will only be awarded if the student is placed in the First Division and failing such a candidate, three Scholarships of Rs. 10 per mensem each will be awarded.



## III. GENERAL MERIT SCHOLARSHIPS

- (1) *To graduates of any Indian University, joining the M.A. Class and not taking up Law:*

One Scholarship of Rs. 15 and one of Rs. 10 to the students with the best all-round academic record other than those to whom Scholarships have been awarded under II above, the Scholarships to be awarded by the Academic Council on the recommendation of the Pro-Vice-Chancellor provided that a Scholarship of Rs. 15 will be awarded only to a student placed in the First Division (Pass or Honours) and failing such a candidate, two Scholarships of Rs. 10 each will be awarded.

- (2) *To graduates of any Indian University, joining the M.Sc. Class:*

Two Scholarships as in (1) above.

- (3) *To students who have passed the High School or equivalent Examination of any Indian University or recognized Board securing First Division and joining the Intermediate Class:*

Four Scholarships of Rs. 10 per mensem each.

*N.B.*—The General Merit Scholarships will be awarded by the Academic Council on the recommendation of the Pro-Vice-Chancellor.

*N.B.*—No student can hold two of the above Scholarships under II and III.

## IV. SPECIAL SCHOLARSHIPS

- (1) *Maharaja Mohindra Singh Scholarships:*

Two Scholarships of Rs. 4 per mensem each (for eight months only) to students standing first (in the Promotion Examination of Class XI) in Arts and Science respectively.

- (2) *Sir Azizuddin Ahmad Scholarships:*

One Scholarship of Rs. 10 per mensem to a student of Biswan or if such student is not available, to that of any district in Oudh studying at the Muslim University to be awarded by the Academic Council on the recommendation of the Pro-Vice-Chancellor.

*N.B.*—Two students will be getting this Scholarship each year.

- (3) *Qadria Scholarships:*

One Scholarship of Rs. 7 per mensem to be awarded in alternate years to a Sunni Muslim student of Nagina or if no such student is available to that of any place in the Bijnor District or failing such a student, to any other Sunni Muslim student of the University. This Scholarship will be awarded to a student of the Intermediate Class if no such student is

available, to that of B.A. or B.Sc. Class and if such student is also not available, to that of M.A. or M.Sc. Class.

(4) Twenty Scholarships of Rs. 20 per mensem each for 10 months to the students of the B.T. Class who are *bonafide* residents of U.P. These will be awarded by the Academic Council on the recommendation of the Pro-Vice-Chancellor.

#### V. SCHOLARSHIPS FOR GIRLS

Two Scholarships, each of Rs. 10 per mensem, to those who stand highest among the girl candidates in the High School Examination and prosecute their further studies at the Muslim Girls' Intermediate College, Aligarh.

These Scholarships will not be available to girls who obtain University Merit Scholarship under II (6) above.

One Scholarship of Rs. 12 per mensem to a girl standing highest among the girl candidates at the Intermediate Examination and prosecuting her further studies at the Muslim University.

#### VI. SCHOLARSHIPS IN MUSLIM HISTORY AND MUSLIM PHILOSOPHY

Two Scholarships of Rs. 50 per mensem each to students who take up M.A. with Muslim History or Muslim Philosophy after passing M.A. in Arabic. The Scholarship in Muslim Philosophy will be awarded to those who satisfy the following conditions:—

- (a) They have taken their B.A. Degree with Philosophy as one of their subjects and for those who join after 1943, have taken Muslim Philosophy as one of their papers for the B.A. Examination with additional Arabic Texts.
- (b) They have passed the M.A. Examination in Arabic or possess other qualifications in Arabic to be recognised by the Academic Council in this behalf.

*N.B.*—These Scholarships will not be awarded to students who pass M.A. in Arabic in III Division.

#### VII. THE SIR WILLIAM MARRIS SCHOLARSHIP ENDOWMENT TRUST

One Scholarship of the value of Rs. 25 per mensem tenable for nine months to a student of the University who, in the opinion of the Vice-Chancellor, has done best in the examination for the Bachelor's (Honours) Degree and intends prosecuting his studies further for a Master's Degree. The Scholarship shall be awarded alternately to Arts and Science students.

### VIII. SCHOLARSHIPS FOR GIRLS

Two Scholarships, each of Rs. 10 per mensem to those who stand highest among the girl candidates in the High School Examination and prosecute their further studies at the Muslim Girls' Intermediate College, Aligarh.

These Scholarships will not be available to girls who obtain University Merit Scholarship under II (6) above.

One Scholarship of Rs. 12 per mensem to a girl standing highest among the girl candidates at the Intermediate Examination in the I or II Division and prosecuting her further studies at the Muslim University.

### IX. RESEARCH SCHOLARSHIP

Two Scholarships of Rs. 50 per mensem each to students carrying on research in Arts and Science subjects.

### X. BHOPAL STATE CRICKET SCHOLARSHIP

One Scholarship of Rs. 15 per mensem. This Scholarship is awarded on the recommendation of the President of the Cricket Club.

## Loans

### I. THE DUTY SOCIETY LOANS

The Muslim University Duty Society grants a limited number of loans without interest to poor and deserving students of the University.

### II. M. E. CONFERENCE LOANS

The All-India Muslim Educational Conference awards a few Scholarships in the shape of loans to the students of the B.T. Class of the University.

## Free and Half-Free Studentships

Remission of the whole of the tuition fee cannot be granted to more than ten per cent. of the number of registered students and remission of half of the tuition fee cannot be granted to more than another ten per cent. of the number of such registered students. No remission is admissible in the tuition fees for the LL.B. Classes.

## Library and Laboratories

The University Library contains about 30,000 books in the General and 17,000 in the Oriental Section including about 4,000 manuscripts (including the Subhanullah Collection). The Library also subscribes to important journals and periodicals.

The Library is open to students for reading, and books can be borrowed by them. There are also special similar libraries attached to different Departments. The Library and the School Museum of the All-India Muslim Educational Conference are open to the students of the Training College.

Laboratories for Physics, Chemistry, Botany and Zoology Departments are furnished with the latest Scientific and Electric equipment. Special Research Laboratories have been equipped and all facilities for research are given. There are similar libraries in Arts Departments also.

### **Physical and Medical Inspection**

The University is provided with a Hospital, under a qualified Medical Officer and two Sub-Assistant Surgeons with the necessary staff. The Hospital has spacious and airy rooms for indoor patients. The Civil Surgeon of Aligarh is called in for consultation in case of serious illness. All resident students undergo a Medical Examination.

Healthy open air exercises, suitable to the physique of the students, are encouraged, and hours are set apart for this purpose.

### **Moinuddin Art Gallery**

This has been constructed with Rs. 50,000 endowed by Prof. Moinuddin Ahmed of Wilson College, Bombay, and furnished with the paintings presented by the Donor. It is open to the public.

### **Publication and Extension Work**

A highly successful system of University Extension Lectures is in operation and lectures are arranged to be delivered on learned and interesting subjects. The University has its own press for the work of publishing the *Aligarh Magazine* conducted by the students themselves, the *Muslim University Gazette*, the official organ of the University, and the *University Journal* conducted by the University Staff. Arrangements are often made to provide for vacation lectures to teachers in Secondary Schools.

### **Military Training**

Two platoons (74 men and N.C.O.'s) are allowed in the University Training Corps Detachment of the Muslim University. The movement is very popular and there is always a large number of recruits on the waiting list. A full company is urgently needed for this institution which draws Muslim youths from all parts of India.

### Associations in the University

The most important University Association is the Muslim University Union run on the lines of the Cambridge and Oxford Unions. It is the centre of the social and intellectual life of the students. Other Associations are:

The Releigh Society.	The Urdu Society.
The Historical Society.	The Curzon Geographical Society.
The Economic Society.	The Mathematical Society.
The Philosophical Society.	The Scientific Society.
The Arabic Society.	The Chemical Society.
The Physical Society.	The German Society.
The Persian Society.	

### Residence and Cost of Living

The University maintains three Halls consisting of several Hostels under the general supervision of the Provosts. More than 75 per cent. of the students are in residence. The fees vary from Rs. 28 to Rs. 35 per month including tuition fees, lodging, food, medical attendance and games.

### Budget

The figures of Revenue Income and Expenditure for 1940-41 are Rs. 9,20,968 and Rs. 9,53,353 respectively.

### Women's Education

Women students are admitted to the M.A., B.A. and B.T. Classes of the University. The teaching arrangements for the B.A. Classes are made in the Muslim Girls' Intermediate College, while arrangements have been made for M.A. and B.T. students to attend the class in the University and the Training College under proper Purdah arrangements, respectively.

A new Hall known as the Muslim University Women's Hall has been instituted and, for the present, is located within the premises of the Muslim Girls' Intermediate College.

The number of female candidates who appeared at the examinations of 1940 was as follows:—

	Appeared	Passed
High School ..	.. 53	44
Intermediate ..	.. 28	23
B.A. ..	.. 24	18
B.A. (Hons.) ..	..	
M.A. (Prev.) ..	.. 13	10
M.A. (Final)	6	6
B.T. (Theory) ..	.. 10	10
B.T. (Practice)	.. 9	9

## • Students' Information Bureau and its Activities

• There is an Information and Appointments Bureau instituted for the purpose of advising students that desire to go abroad for studies as well as supplying information to ex-students about vacancies in various Government and non-Government services. This is under the supervision of a Committee and the Vice-Chancellor.

## Coaching Classes

Special arrangements are made for training suitable students for Competitive Examinations.

## Journalism

Coaching Classes in Journalism are also held and students attending these classes are charged Rs. 2 per mensem as tuition fee.

## Sports and Games

The University has separate Clubs for Cricket, Football, Hockey, Tennis, Swimming and Athletic Sports. The Presidents of these clubs are chosen from among the staff of the University, and all clubs are under the General Games Club. The Bhopal State gives a grant of Rs. 2,400 a year to the Cricket Club.

The late lamented Nawab Sir Mohammed Nasrullah Khan of Bhopal presented a Silver Trophy which is given to the winner of All-India Cricket Tournament held every year in Aligarh.

Nawab Salar Jung Bahadur of Hyderabad has presented a Shield to the Football Club, which is given every year to the winning team in the All-India Football Tournament.

The New Gymnasium which was constructed with the munificent donations of His Highness the Maharaja Tukoji Rao Holkar of Indore and Captain Nawab Dr. Sir Mohammad Ahmad Said Khan, K.C.S.I., K.C.I.E., M.B.E., LL.D., has now been completely fitted up with up-to-date apparatus. Provision is also made for Wrestling and Binnot.

Military Drill has been made compulsory for the students of the School and the Intermediate Classes and optional for the students of the Degree Classes. It is also proposed to start a Miniature Rifle Club.

## Courses of Study, Degrees and Examinations

The University offers the Degrees of B.A. (Pass and Honours), M.A., PH.D., and D.LITT. in Arts; B.Sc. (Pass and Honours), M.Sc., PH.D., and D.Sc. in Science; B.Sc. (Engineering) Mechanical and Electrical; LL.B., LL.M., and LL.D. in Law; B.T. in Teaching and the Degrees of Bachelor, Master and Doctor in Theology.

### ARTS AND SCIENCE

*Intermediate Examination.*—The course extends over a period of two academic years after the High School Examination of the Aligarh Muslim University or any other recognized equivalent examination and is open to University students as well as private candidates and teachers.

The examination consists of two parts, the following being the subjects of study and examination in each part:

*Part I* (Compulsory).—Theology or, in the case of non-Muslim candidates, Muslim History (1 paper), and Urdu (1 paper).

*Part II.*—This part comprises English (3 papers) and any three of the following:

(1) Classical or a Modern European Language other than the English Language (3 papers), (2) Mathematics (3 papers), (3) Logic: Inductive and Deductive (2 papers), (4) Islamic History (2 papers), (5) A Course of History, Indian and European, other than the Islamic History (2 papers), (6) Political Economy (2 papers), (7) Geography (2 papers), (8) Education (2 papers), (9) Agriculture (2 papers and a Practical examination), (10) Physics (2 papers and a practical examination), (11) Chemistry (2 papers and a practical examination), (12) Biology, (2 papers and a practical examination), (13) Urdu (2 papers), (14) Commerce (2 papers), and (15) Civics (2 papers).

The examination will be conducted partly by means of question papers and partly *viva voce*, and in subjects which admit of it, candidates will also be required to undergo a practical examination.

*B.A. or B.Sc. (Pass).*—The Course extends over a period of two academic years and a candidate is required to study and be examined in the following parts:

*Part I.*—(1) English, General (2 papers and a *viva voce*), Urdu or Elementary Persian in the case of students offering Urdu as an Optional subject and Theology (one paper each).

*Part II.*—Any three of the following subjects:

(1) English Literature (2 papers), (2) Philosophy and Psychology (3 papers), (3) Economics (2 papers), (4) History (2 papers), (5) Geography (2 papers and a practical examination), (6) Islamic Studies (3 papers), (7) Education (2 papers), (8) Arabic, Persian, Urdu or Sanskrit (3 papers), (9) Mathematics (3 papers), (10) Physics (2 papers and a practical examination), (11) Chemistry (2 papers and a practical examination), and Zoology and Botany (2 papers and a practical examination in each), and Politics (3 papers).

*B.A. or B.Sc. (Honours).*—The examination will be in two parts:

*Part I.*—Same as for the ordinary Degree.

*B.A. Part II.*—One of the following Honours Schools: Islamic Studies (5 papers), Arabic (5 papers), Persian and Urdu (5 papers each), English Language and Literature (5 papers), Philosophy (5 papers and a *viva voce*), History (6 papers), Mathematics (6 papers), Geography (5 papers and a practical), and Economics (5 papers).

*B.Sc. Part II.*—Physics (5 papers and a practical examination), Chemistry (5 papers and a practical examination), Mathematics (6 papers), Botany, Zoology or Geography (5 papers and a practical in each).

Each Honours School includes two allied subjects as subsidiary subjects.

*M.A. or M.Sc. (Previous and Final).*—The examination for the Master's Degree extends over a period of two academic years and consists of two parts, *viz.*, the Previous and the Final. Candidates who have passed the B.A. or B.Sc. (Hons.) are, however, allowed to complete the course after one year only. Only graduates of the Muslim University are eligible to appear at these Examinations as Teacher candidates.

English Language and Literature (7 papers), Philosophy (6 papers, an Essay and a *viva voce*), Political Economy (8 papers), History (7 papers), Islamic Studies (no examination), Arabic Language and Literature (7 papers), Persian Language and Literature (7 papers), Mathematics (8 papers), Physics (7 papers), Chemistry (7 papers), Zoology (6 papers), Botany (6 papers), Geography (7 papers), and Urdu (7 papers).

In Science subjects, the students have to undergo a practical examination and in Arts subjects, a *viva voce*.

#### LAW

*LL.B.*—There will be two examinations for the degree of LL.B., the Previous Examination held at the end of the first year and the Final Examination held at the end of the second



year, and the course is open to graduates of Aligarh Muslim University or of any other recognized University.

A candidate is required to study and be examined in:

*Previous Examination* (6 papers).—(1) Roman Law or Income-Tax Law and Insurance Law, (2) Law of Contracts, (3) Law of Easements and Torts, (4) Criminal Law and Procedure, (5) Constitutional Law, and (6) Law of Evidence.

*Final Examination*.—This examination is open to those who have passed the Previous Examination in Law of this University and have kept three terms in the University. A candidate is required to study and be examined in (1) Civil Procedure, (2) Principles of Pleading and Limitation, (3) The Law relating to Land Tenure, Rent and Revenues in the United Provinces of Agra and Oudh, Bengal and Central Provinces, Rent, Revenue and Customary Laws of Punjab, (4) Hindu Law as administered by the Courts in British India, (5) Muhammadan Law as administered by the Courts in British India, (6) Equity with special reference to the Law of Trusts and Specific Relief, (7) The Law relating to Transfer of Property including the Principles of Equity in so far as they relate to the subject, and (8) Jurisprudence.

Candidates who obtain 60 per cent. of the aggregate number of marks or more shall be placed in the First Class and those who obtain not less than 50 per cent. in the Second Class.

*LL.M.*—This is open to candidates who have passed the LL.B. Examination of the Muslim University or from the late M.A.O. College.

### THEOLOGY

There are two courses of study under this faculty, the ordinary course and the advanced course. A Degree of Bachelor of Theology is also awarded.

### EDUCATION

*Bachelor of Teaching*.—Graduates are admitted to this examination.

The course extends to one academic year, candidates being required to study and be examined in the following subjects:

(1) Psychology, (2) Methods of Teaching, (3) History of Education, (4) School Organization and Hygiene, and (5) General Method.

Optional special subjects:

(1) English, (2) History, (3) Geography, (4) Science, (5) Mathematics, and (6) Urdu.

A Department of Medicine (Unani) has been started from October 1927. The course extends to five years. The teaching of this Department is done in a separate associated institution known as the Tibbiya College.

*B.Sc. Degree in Electrical and Mechanical Engineering.*—A Department of Technology has been opened and the above two degrees have been instituted. Students who have passed the Intermediate Examination of a recognised University or Board with Physics, Chemistry and Mathematics, are eligible for admission. They are required to undergo a course of study for three years followed by one year of practical training in approved factories, workshops or power system. During each of the three years to be spent in the Department, teaching is imparted for nine months and outside practical training for two months and an examination is held at the end of each year.

### Scale of Marks

	Minimum pass marks	I Div.	II Div.	III Div.
	%	%	%	%
High School ..	33	60	45	33
Intermediate ..	33	60	45	33
B.A. or B.Sc. ..	33	60	45	33
B.A. or B.Sc. (Hons.)	36	60	48	36
M.A. or M.Sc. (Pre., Final) ..	36	60	48	36
. LL.B. (Pre., Final)	30	60	50	..
B.T. ..	36	60	48	36
B.T.H. (Pre., Final)	36	60	48	36
B.Sc. (Engineering)				
Electrical ..	40	60	50	—
B.Sc. (Engineering)				
Mechanical ..	40	60	50	—

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# **Allahabad University**

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## **Introductory: Character of the University**

Founded in 1887, the University concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Subsequently, it established Chairs and Readerships, etc., for research work in Economics, Ancient Indian Culture, and Modern Indian History for graduate students. In January 1922 was passed an Act (which came into operation in July 1922) for the re-organization of the University as a Unitary, Teaching and Residential institution with control over the quality and character of the teaching in Associated Colleges. The Muir Central and Law Colleges became the nucleus of a teaching University, the jurisdiction of which was limited to a territorial area of ten miles from the Convocation Hall of the University. Within this area there are three institutions which supplement instruction given in the University, *viz.*, the Ewing Christian College, the Kayastha Pathasala College and the Agricultural College. The Women's Department undertakes full instruction for the degree course. By Act VIII of 1926 a University was established at Agra and the control of the Associated Colleges was transferred to it. The new Act which came into force with effect from 1st July 1927, has set the Allahabad University free to function as a Unitary, Teaching and Residential University by relieving it of the responsibility of controlling the quality and character of the teaching given in its name by the Associated Colleges and placing such responsibility upon the new University. Tutorial instruction is regularly imparted in the University. There are Diploma Courses in Local Self-Government and Indian Music, and Certificate Courses in Laboratory Workshop Training, Military Science, Social Service, and Photography.

## **Officers and Staff of the University**

### **CHANCELLOR**

His Excellency the Hon'ble Sir Maurice Garnier Hallett,  
K.C.S.I., C.I.E., I.C.S.

### **VICE-CHANCELLOR**

Prof. Amaranatha Jha, M.A., F.R.S.L.

## TREASURER

Rai Bahadur Dr. Kanhaiya Lal, M.A., LL.D.

## REGISTRAR

Dr. S. P. Varma, M.A., rh.D. (Lond.)

## ASSISTANT REGISTRAR

K. D. Tewari, Esq., M.A., LL.B.

## PROCTOR

M. Naimur Rehman, Esq., M.A.

## LIBRARIAN

Dr. Ram Prasad Tripathi, M.A., D.Sc. (Lond.)

## TEACHING STAFF

- English .. *Professor*: Pt. Shiva Adhar Pande, M.A., LL.B., M.B.A.S.  
*Readers*: S. C. Deb, Esq., M.A.; Dr. P. E. Dustoor, M.A., D.Litt.; K. K. Mehrotra, Esq., M.A., B.Litt. (Oxon.); Lecturers twelve, one part-time Teacher and two Lady Lecturers.
- Philosophy .. *Professor*: R. D. Ranade, Esq., M.A.  
*Reader*: A. C. Mukerji, Esq., M.A.; three Lecturers and two Lady Lecturers.
- History .. *Professor*: Sir Shafaat Ahmad Khan, Kt., M.A., Litt.D. (*on leave*).  
*Readers*: Dr. Ram Prasad Tripathi, M.A., D.Sc. (*Offg. Prof.*); Dr. Ishwari Prasad, M.A., D.Litt.; five Lecturers and one Lady Lecturer.
- Political Science .. *Professor*: Dr. Beni Prasad, M.A., Ph.D., D.Sc.; four Lecturers, one part-time Teacher and one Lady Lecturer.
- Arabic and Persian *Professor*: Dr. A. Siddiqi, M.A., Ph.D.  
*Reader*: Maulvi Syed Muhammad Ali Nami, M.A.; four Lecturers.
- Sanskrit .. *Professor*: Dr. P. K. Acharya, M.A., Ph.D., D.Litt., I.E.S.  
*Reader*: Dr. Babu Ram Saksena, M.A., D.Litt.; three Lecturers and one Lady Lecturer.

- Urdu .. *Reader*: Captain S. M. Zamin Ali, M.A.  
*Lecturers*: Two Lecturers and one Lady Lecturer.
- Hindi .. *Reader*: Dr. Dharendra Varma, M.A., D.Litt.  
*Lecturers*: Three Lecturers, one part-time Teacher and one Lady Lecturer.
- Physics .. *Professor*: Dr. H. J. Bhabha, F.R.S.  
*Readers*: Saligram Bhargava, Esq., M.Sc.; Dr. R. N. Ghosh, D.Sc. (*Offg.*); eight Lecturers.
- Chemistry .. *Professor*: Dr. B. K. Singh, M.A., Sc.D. (Cantab.), Sc.D. (Dublin).  
*Readers*: K. P. Chatterji, Esq., M.Sc., F.C.S. A.I.C.; Dr. S. B. Dutt, D.Sc. (London); eight Lecturers.
- Mathematics .. *Professor*: A. C. Banerji, Esq., M.A., M.Sc., I.E.S., F.R.A.S., F.L.M.S. (Lond.).  
*Readers*: Dr. Gorakh Prasad, D.Sc.; Dr. Peare Lal Srivastava, M.A., D.Phil. (Oxon.); four Lecturers.
- Botany .. *Professor*: Dr. S. Ranjan, D.Sc.; five Lecturers.
- Zoology .. *Professor*: Dr. D. R. Bhattacharya, Ph.D., D.Sc. (Paris—State).  
*Reader*: Dr. Haru Ram Mehra, Ph.D. (Cantab.); five Lecturers.
- Law .. *Professor*: A. P. Dube, Esq., M.A., B.C.L. (Oxon.), Bar-at-Law.  
*Readers*: K. K. Bhattacharya, Esq., M.A., LL.M. (Lond.), Bar-at-Law; K. R. R. Sastry, Esq., M.A., M.L., (Madras); two Lecturers A grade and three part-time Teachers.
- Commerce .. *Reader*: M. K. Ghosh, Esq., M.A., B.Com. (Lond.) and six Lecturers.
- Economics .. *Professor*: S. K. Rudra, Esq., M.A. (Cantab.).

*Readers:* G. D. Karwal, Esq., M.A.;  
B. P. Adarkar, Esq., M.A. (Cantab.);  
five Lecturers and one Lady Lecturer.

French and German *Part-time Teacher:* Dr. Mrs. H. Kale,  
Dr. in Letters (*on leave*).

Local Self-Govern- Dr. M. P. Sharma, M.A., D.Litt.  
ment

Italian .. *Teacher:* Dr. Luciano Petech, D.Litt.

### The following are the Names of the Colleges of the University with their Principals \*

Ewing Christian College, Allahabad (University College)	<i>Principal:</i> Dr. C. H. Rice, M.A., Ph.D.
Kayastha Pathasala, Allahabad (University College)	<i>Principal:</i> Dr. Tara Chand, M.A., D.Phil.
Agricultural Institute, Naini, Allahabad	<i>Principal:</i> Dr. Sam Higginbottom, M.A., LL.D.

### Constitution of the University

The authorities of the University are: The Court, the Executive Council, the Academic Council, the Committee of Reference and the Faculties. The Committee of Reference is empowered to deal with items of new expenditure of Rs. 3,000 or over in the case of recurring expenditure and of Rs. 10,000 or over in the case of non-recurring expenditure. There are Women's Advisory Board, Physical Education Board, Muslim Advisory Board, and Board of Residence, Health and Discipline.

### Number of Students in the University under Different Faculties

The number of students during the year 1940-41 was:—

Faculty of Arts	.. ..	1,638
„ Science (including Agriculture)	.. ..	488
„ Commerce	.. ..	153
„ Law (Exclusive of those students who read Law with M.A.)	.. ..	306

**TOTAL .. 2,585**

### Number of Successful Students in the Different Examinations

The number of students who have passed the University Examinations of 1941 is shown below:—

B.A. (Pass)	..	..	416
B.Sc. (Pass) Course	..	..	91
B.A. (Hons.) III Year	..	..	19
B.Sc. (Hons.)	..	..	1
M.A. (Previous)	..	..	169
M.A. (Final)	..	..	161
M.Sc. (Previous)	..	..	47
M.Sc. (Final)	..	..	53
LL.B. (Previous)	..	..	154
LL.B. (Final)	..	..	138
B.Com. (Part I)	..	..	74
B.Com. (Part II)	..	..	52
M. Com. (Previous)	..	..	11
D.Sc.	..	..	—
D.Litt.	..	..	1
D.PHIL.	..	..	2
B.Sc. Agriculture	..	..	17
B.A. (Hons.) II Year	..	..	—
B.Sc. (Hons.) in subsidiary subjects	..	..	13

**TOTAL** .. 1,418

### Scholarships and Medals

The University awards a certain number of Research Scholarships to M.A.'s and M.Sc.'s annually. They are of the value of Rs. 50 per month each and are tenable for a period of one year. The University also awards annually two Scholarships of Rs. 20 per month and four of Rs. 15 per month each tenable for one year to post-graduate women students and medals to the students who do best at the B.A., B.Sc. and B.Com. Examinations. It also awards one D.Litt. Scholarship and one D.Sc. Scholarship, each of the value of Rs. 100 per month, six M.A. Scholarships of the value of Rs. 30 per month each, four M.Sc. Scholarships of the value of Rs. 25 per month each and five M.Sc. Scholarships of the value of Rs. 32 per month each. The period of tenure of each of these Scholarships is two years, except in the case of the M.Sc. Scholarships of the value of Rs. 32 per month each, which are awarded on the results of the B.Sc. Honours Examination and are tenable for a period of one year.

The following are the endowed Scholarships and Medals in the University:—

*Queen Empress Victoria Jubilee Medal.*—(Capital value Rs. 1,000): Two silver medals are awarded to the two most successful students in the M.A. and B.A. Examinations in one year and to two most successful students in the M.Sc. and B.Sc. Examinations in the next year.

*Ikkal Medal.*—(Capital value Rs. 1,500): A gold medal is awarded to the first Muhammadan student at the B.A. Examination.

*Sir Charles Elliot Scholarship.*—(Capital value Rs. 6,000): One Scholarship of the value of Rs. 17-8-0 per month tenable for one year is awarded annually for precedence in the B.Sc. Examination.

*Griffith Memorial Fund Scholarships.*—(Capital value Rs. 7,600): Two Scholarships and certain prizes are awarded to students who actually study in the Sanskrit College, Benares.

*Lumsden Memorial Scholarships and Gold Medal.*—(Capital value Rs. 9,400): One Scholarship of the value of Rs. 8 per month tenable for one year is awarded in one year to the student who has stood first in Sanskrit at the Intermediate Examination and in the next year to the student who has stood first in Arabic at the same examination. A gold medal of the value of Rs. 50 is also awarded every year to the LL.B. candidate who stands first.

*Swarnamayi Uma Charan Prize.*—(Capital value Rs. 1,000): A prize of the value of Rs. 35 is awarded to the B.Sc. student who stands first.

*Lala Sanwal Das Stipends.*—(Capital value Rs. 24,900): Four stipends of the aggregate value of Rs. 50 per mensem are awarded only to Khattri or Saraswat Brahman students in the Intermediate and B.A. classes.

*Himangini-Bhuvaneswari Book Prize.*—(Capital value Rs. 1,000): Annual Book Prize to the candidate who stands first in Sanskrit in the Intermediate Examination.

*Empress Victoria Readership.*—(Capital value Rs. 1,36,000): The value is Rs. 100 per mensem. It is tenable for three years for researches in Science.

*Kanta Prasad Research Scholarships.*—(Capital value (Rs. 51,600): Two Scholarships of the value of Rs. 100 per mensem each for two years for Hindus, preferably of the Vaish community.

Besides these there are also the following Prizes and Scholarships:—

*Ward Vidyant and Cox Vidyant Memorial Gold Medals.*—(Capital value of Rs. 3,000): Two gold medals to be called the Ward Vidyant Memorial Gold Medals are awarded every year



to the best students in the M.Sc. and B.Sc. Examinations in Physics and one gold medal, to be called the Cox Vidyant Memorial Gold Medal is awarded every year to the best student in the M.A. or M.Sc. Examination in Mathematics.

*Harrison Memorial Gold Medal.*—(Capital value Rs. 1,000); One gold medal is awarded to the best student who stands highest in the M.A., M.Sc. or other higher Examination of the University in alternate years in English and Mathematics.

*Srimathi Leila Sukhadharshni Atal Scholarships.*—(Capital value Rs. 5,200): Two Scholarships of Rs. 9 per month each for Lady students available in the 1st and 2nd year of B.A. and B.Sc. classes respectively on the results of the Intermediate Examination.

*Sri Krishna Kaul Memorial Gold Medal.*—(Capital value Rs. 1,250): A gold medal is awarded to the student who stands first in Political Science at the B.A. Examination.

*P. Seshadri Gold Medal.*—(Capital value Rs. 1,000): A gold medal is awarded to the student of the University who writes the best Essay in English.

*The Maharajadhiraja Rameshwara Singh Bahadur of Darbhanga Lectureship.*—(Capital value Rs. 18,000): A Lecturer shall be appointed every alternate year on an honorarium of Rs. 1,000 to deliver at the University a course of at least four lectures on a subject bearing on Indian Life and Thought.

Sir Henry Richards Gold Medal; Homersham Cox Medal; Dr. Kally Dass Nundy Thakomony Medal; Hariprava Medal; Rama Mohan De Medal; Mahendra Nath Dutt Medal; General Ali Asghar Khan Scholarships; Tirthanatha Jha Scholarship and Ramakashi Devi Gold Medal; Vizianagaram Scholarships; Nawab Ali Asghar Khan's Arabic Scholarships; Rampur Scholarships; Purushottamji Scholarships; Peary Mohan Banerji Gold Medal; Nilkamal Mitra Gold Medal; Moulvi Haider Hussain and Choudhri Dhian Singh Prize; Dr. E. G. Hill Memorial Prize; S. A. Hill Memorial Prize; Chintamani Ghosh Medals; Muir College Fund Prize; Professor Dunn Medal; Bhagbhari Handoo Prize; Sashilata Virabhadra Jha Gold Medal; Purushottam Krishna Scholarship and Pandit Kanhaiya Lal Gold Medal; Khajurgoon Raj Gold Medal; and Awadhwasī Sita Ram Gold Medal; Prof. A. C. Mukerji Gold Medals; Gauri Shankar Chatterji Book Prize; Pundrik Ray Bakshi Book Prize.

### Library, Museums, Laboratories, etc.

There is a general Library. At the end of the year 1940-41 there were 1,03,937 volumes in it and they were distributed as follows:—

Books, Pamphlets and Bound Volumes of	
• Journals .. ..	87,552
Government publications, Indian, British and	
• Foreign .. ..	16,385

There is a Coin Museum in the Library building. There are also departmental libraries for the use of teachers and a Laboratory is attached to each of the Departments of Physics, Chemistry, Botany and Zoology. There is also a Museum attached to the Commerce Department. An Art Gallery has recently been opened.

### Provision for Research

The University Act of 1921 makes it one of the duties of the University to arrange for the carrying on of independent research and this duty is discharged by provision of research scholarships in the different departments of study. The Professors also carry on research and contribute papers to the leading scientific journals. The University itself publishes *The University Studies*, which is a record of research work carried on in the University.

The number of University research scholarships sanctioned for 1940-41 is as follows:

History Department .. ..	1
Economics Department .. ..	1
Sanskrit Department .. ..	1
Hindi Department .. ..	1
Persian and Arabic Department .. ..	1
Urdu Department .. ..	1
Philosophy Department .. ..	1
English Department .. ..	1
Politics Department .. ..	1
Science Departments .. ..	5

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TOTAL .. 14

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The University has a Provident Fund to which every officer or servant of the University holding a substantive appointment of Rs. 30 per mensem or upwards, is required to subscribe at the rate of 8 per cent. of his salary, the University contributing at the rate of 12 per cent. in the case of subscribers drawing a salary of Rs. 500 or less, 10 per cent. in the case of subscribers drawing a salary of more than Rs. 500 but not exceeding Rs. 1,000 and 8 per cent. in the case of subscribers drawing a salary of over Rs. 1,000. The University has also instituted a Fund for the grant of gratuity to its menial servants under certain conditions.

### **Women's Education**

Arrangements have been made for giving both formal and tutorial teaching to women students of the B.A. classes separate from men at the Women's Department of the University. The number of lady lecturers sanctioned for the purpose is nine.

### **Provision for Safeguarding Health, Medical Inspection, Discipline, etc.**

The Board of Residence, Health and Discipline of the University is vested with the power of dealing with all matters concerning the residence, health and discipline of University students. The constitution and powers of the Board are defined in Chapter VIII of the University Calendar. Two Medical Officers of the University are in charge of the Colleges of the University and the Hostels and are required to undertake the medical examination of all the University students. The University has a dispensary with indoor beds for the benefit of its students and an Isolation Ward.

### **Admission to the University Courses of Study, Degrees and Examinations**

The University grants in Arts, the B.A. Degree (Pass and Honours) and the Master's Degree; in Science, the B.Sc. Degree (Pass and Honours), the B.Sc. (AG.) Degree and the Master's Degree. The Professional Degrees and Diplomas are Bachelor of Commerce, Bachelor of Laws and Master of Laws. D.LITT., D.Sc., D.PHIL. and LL.D. are the Doctor's Degrees.

#### **ADMISSION TO COURSES OF STUDY**

Admission to a course of study for the Bachelor's Degree is granted only to those who have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces or of any University in British India incorporated by any Law for the time being in force or any examination recognized as equivalent thereto. The Higher School Certificate Examination of the Cambridge University, the Intermediate Examination of the Mysore University and the Preliminary Examination of the Mayo College, Ajmer, have been recognized as equivalent to the Intermediate Examination of the Board of High School and Intermediate Education, U.P. The Intermediate Examination of the Rajputana Board of High School and Intermediate Education and the Intermediate Examination of the Dacca Board of Intermediate and Secondary Education have also been so recognized, the latter subject to certain conditions. The Final Examination for the full course Certificate of the

Government Commercial Institute, Calcutta, after having passed the Matriculation or any equivalent examination of any University or Board established by Law in India has also been recognized as equivalent to the Intermediate Examination for admission to B.A. class. Admission to post-graduate classes is allowed to graduates of this University or of any other University in British territory recognized by the law of the place in which it is situated or of any University which may from time to time, be recognized for this purpose. The Mysore University has been so recognized so far. Admission to B.COM. classes is granted to those who have passed the Intermediate Examination of the U.P. Board with Economics or Intermediate Examination in Arts and Science of the Andhra University with Banking, Accountancy and Commercial Geography as their subjects or any University in India established by Law, the Commercial Diploma Examination of the Allahabad University or of the Board of High School and Intermediate Education, U.P., or the Intermediate Examination in Commerce of the U.P. Intermediate Board or have passed certain higher examinations. Graduates in Commerce are eligible for admission to the M.COM. class. Admission to the B.SC. class in Agriculture is granted to those who have passed the Intermediate Examination in Agriculture of the U.P. Board of High School and Intermediate Education or the First Examination in Agriculture of the Punjab University or the Intermediate Examination of the Nagpur University.

### COURSES OF STUDY IN ARTS

*Bachelor of Arts (B.A.) (Pass).*—The course of study extends over two years and candidates are required to study and be examined in Compulsory English and any three of the following branches:—

(a) English Literature, Arabic, Persian or Sanskrit, Hindi or Urdu, (b) Mathematics, (c) Philosophy, (d) Economics, (e) History, (f) Geography, and (g) Politics. The examination in Compulsory English consists of two general papers and a *viva voce* and that English Literature of three special papers. Three papers are set in each of the Classical Languages and in Mathematics, two papers each in Philosophy, Economics, Politics, History and Geography and three papers each in Urdu and Hindi.

The minimum for a pass in all subjects is 33 per cent. of the aggregate.

*Master of Arts (M.A.).*—The course of study extends over two years. The examination consists of two parts—the M.A. (Previous) Examination held at the end of the first year and the M.A. (Final) Examination held at the end of the second

year. A candidate may select one of the following subjects:— (1) Languages: English, Sanskrit, Arabic, Persian, Urdu or Hindi, (2) Mental and Moral Science, (3) History, (4) Mathematics, (5) Economics, and (6) Political Science.

At the M.A. (Previous) Examination there are four papers in English Literature, Sanskrit, Arabic, Persian, Hindi, Urdu, Politics, History, Mathematics, and Mental and Moral Science and five papers in Economics. There is also a *viva voce* examination in all the subjects except in Economics and Mathematics. For the Final Examination five papers are set in English Literature and Mathematics, and four papers in Arabic, Persian, Sanskrit, Hindi, Urdu, Economics, History, Politics; and Mental and Moral Science. Of the four papers in Sanskrit, one is on composition and the other three on texts in one of the following groups: (a) Vedic Language and Literature, (b) Sanskrit Language and Literature, (c) Dharma Shastra, (d) Philosophy, (e) Epigraphy and History, (f) Pali and Prakrit. There is a *viva voce* at the Final Examination in all the Subjects except Mathematics.

The minimum pass marks in all the subjects are 36 per cent.

#### SCIENCE FACULTY

*Bachelor of Science (B.Sc.) (Pass).*—The course of study extends over two academic years, and candidates must study and be examined in either of the following groups of subjects: (a) Physics, Chemistry and Mathematics, (b) Chemistry, Botany and Zoology, (c) Geography, Botany and Zoology, (d) Physics, Mathematics and Military Science, (e) Mathematics, Chemistry and Military Science, (f) Chemistry, Military Science and Botany or Zoology, (g) Military Science, Botany and Zoology. There are two papers and a practical examination in each subject except Mathematics in which three papers are set. A candidate may, at his option, take General English as an extra subject in which there are two papers and a *viva voce*, but the marks in General English do not count towards the aggregate.

The minimum for a pass in each Science subject and also in English is 33 per cent. and 33 per cent. in the aggregate. A candidate is required to pass in Theory and Practical separately.

Students for the Pass Course may be transferred to the Honours Course within three months of the first year of study on the recommendation of the Head of the Department and from Honours Course to Pass Course within first six months of the first year of study.

*Bachelor of Science (B.Sc.) (Hons.).*—The duration of the course of study is three years. Every candidate must offer one of the following as his Honours subject: (1) Physics, (2) Chemistry, (3) Botany, (4) Zoology, and (5) Mathematics.

He must also take two of the subjects, other than his Honours subject, as his subsidiary subjects. The examination in the subsidiary subjects is identical with that of the Pass degree.

The minimum pass marks in the Honours subjects are 36 per cent. Candidates who fail to attain the Honours standard can reappear only once for the examination in that subject. Candidates who have failed to obtain Honours may, if they attain the prescribed standard, be recommended for a Pass degree.

*Bachelor of Science (Ag.).*—The course of study extends over a period of two academic years. Candidates are required to study (1) Agriculture (including Agricultural Engineering and Veterinary Hygiene), (2) Agricultural Chemistry, (3) Agricultural Botany, and (4) Agricultural Zoology. The minimum for a pass is 33 per cent. in each subject and 33 per cent. in the aggregate. Candidates shall be required to pass separately in the written as well as in the practical examination of each subject.

*Master of Science (M.Sc.).*—The course of study extends over two years after graduation and the examination consists of two parts—the Previous and the Final—held at the end of the first and the second year respectively. Candidates must offer one of the following subjects: (a) Mathematics, (b) Physics, (c) Chemistry, (d) Zoology, and (e) Botany. At the Previous Examination, there are three papers and a practical examination in Physics, Botany and Chemistry, four papers and a practical examination in Zoology, and four papers in Mathematics. In Mathematics the examination consists of the B.Sc. examination papers in the branch of Mathematics in which the (Honours) candidate is not proceeding for the M.Sc. Degree. At the Final Examination, five papers are set in Mathematics, four papers in Zoology and two papers in Physics, Botany and Chemistry, with a Practical examination in each subject except Mathematics.

The minimum for a pass is 36 per cent. in each subject.

*Bachelor of Commerce (B.Com.).*—The course of study extends over two years and is open to students who have passed one of the following examinations: Commercial Diploma of the University or of the Board of High School and Intermediate Education, U.P., the Intermediate Examination in Commerce of the same Board; Bachelor of Arts with Economics; Previous Master of Arts in Economics of the University; Master of Arts Examination of any University; the Intermediate Examination in Arts and Science of Andhra University with Banking and Accountancy and Commercial Geography; the Intermediate Examination with Economics; and the Final Examination for the full course certificate of the Government Commercial Institute, Calcutta. The examination is ordinarily

NOTE.—Marks of the two examinations, Previous and Final, will be added to determine the position on the Pass List of the Final Year.

1st Class—60 per cent. and over.

2nd Class—48 per cent. and over.

*Bachelor of Laws (LL.B.).*—The course of study extends over two years and is open to graduates in Arts, Science, Commerce and Agriculture. The examination consists of two parts—the Previous and the Final—held at the end of the first and second years respectively. The subjects for the Previous Examination are: (1) Roman Law, (2) The Law of Contracts except the Law of Partnership, (3) The Law of Easements and Torts, (4) The Law of Evidence, (5) Criminal Law and Procedure, (6) Constitutional Law and Administrative Law, and (7) Hindu Law. The following are the subjects for the Final Examination: (1) Civil Procedure including Limitation, (2) The Law relating to the Land Tenures, Rent and Revenues, (3) The Law of Partnership and of Companies, (4) Muhammadan Law, (5) The Law relating to Transfer of Property, (6) Equity with special reference to Trusts and Specific Relief, (7) Jurisprudence, and (8) Public International Law.

The examination is conducted by papers. The minimum for a pass is 30 per cent. in each subject and 50 per cent. in the aggregate.

*Master of Laws (LL.M.).*—The LL.M. Examination is open to Bachelors of Laws of the Allahabad University of at least two years' standing or of any other university to which Ordinance 4 of Chapter XXX applies. Candidates are required to offer four compulsory and two optional subjects. The compulsory subjects are: (1) Jurisprudence and Principles of Legislation, (2) Constitutional Laws: British and Indian, (3) Equity, and (4) either (a) Hindu Law or (b) Muhammadan Law. The following are the optional subjects: (1) Muhammadan Law or Hindu Law whichever is not chosen as a compulsory subject, (2) Law of Contracts, (3) Transfer of Immovable Property and Easements, (4) Roman Law, (5) International Law, Public, and (6) International Law, Private.

The examination is conducted *viva voce* and by written papers. Candidates obtaining 40 per cent. in each subject and not less than 60 per cent. on the whole are declared successful in the First Class; and candidates obtaining 40 per cent. in each subject and 50 per cent. on the whole in the Second Class.

#### DOCTORATES

*Doctor of Philosophy, Arts (D.Phil.).*—A candidate for the Degree of Doctor of Philosophy must be either (1) a Master of

Arts of this University or (2) a Master of Arts of any other University recognized by this University.

Every candidate shall pursue as a student of the University a course of research of not less than 20 months' duration.

NOTE.—A teacher of this University shall be considered to be a student for the purpose of this Ordinance.

He shall pursue his research at Allahabad unless the Vice-Chancellor, on the recommendation of the supervisor, gives him leave of absence for ordinarily not more than one year on the ground that it is in the interest of his research that he should work elsewhere.

After the thesis is completed the candidate shall supply five printed or typed copies of his thesis which shall comply with certain conditions.

If the majority of examiners report that the thesis is satisfactory the University shall arrange for the *viva voce* examination.

If the *viva voce* examiners are also satisfied, the recommendations of the thesis and *viva* examiners shall be placed by the Research Degree Committee before the Faculty for necessary action.

*Doctor of Letters (D.Litt).*—A candidate for the Degree of Doctor of Letters must be either (1) (a) a Doctor of Philosophy of this University of at least two years' standing, or (b) a Master of Arts of this University of at least seven years' standing, or (2) (c) a Master of Arts of at least seven years' standing of a University recognized by this University, who has resided at the University for at least one year, or (d) a Doctor of Philosophy of another University recognised by the Allahabad University who has resided at the University for at least one year. Candidates under (b) and (c) must satisfy the Faculty that the work already done by them is of sufficient merit to earn exemption from the D.Phil. Degree.

Every candidate who intends to supplicate for the said degree shall communicate his intention to do so to the Registrar stating the subject chosen by him for the thesis and support his application by submitting a copy of the contribution published by him towards the advancement of the subject of his study. He shall submit a certificate from two Members of the Faculty that he is a fit and proper person to supplicate for the Degree of Doctor of Letters.

After the thesis is completed, the candidate shall supply five printed or typed copies of his thesis. The thesis shall comply with certain conditions.



If the majority of examiners report that the thesis is satisfactory, the University shall arrange the *viva voce* examination.

If the *viva voce* examiners are also satisfied, the recommendations shall be placed before the Faculty for necessary action.

*Doctor of Philosophy in Commerce (D.Phil. Com.).*—The ordinances for D.PHIL. in Arts have been adopted.

*Doctor of Letters in Economics (D.Litt. Econs.).*—The conditions of admission are the same as those for Doctorate in Arts.

*Doctor of Philosophy, Science (D.Phil.).*—A candidate for the Degree of Doctor of Philosophy must be either (1) a Master of Arts or Science of this University or (2) a Master of Arts or Science of any other University recognized by this University.

Every candidate shall pursue as a student of the University a course of research or of not less than 20 months' duration.

NOTE.—A teacher of this University shall be considered to be a student for the purpose of this Ordinance.

He shall pursue his research at Allahabad unless the Vice-Chancellor, on the recommendation of the supervisor, gives him leave of absence for ordinarily not more than one year on the ground that it is in the interest of his research that he should work elsewhere.

No candidate will be permitted to proceed to any research degree unless and until he has paid all dues as a student.

After the thesis is completed the candidate shall supply five printed or typed copies of his thesis which shall comply with certain conditions.

If the majority of examiners report that the thesis is satisfactory, the University shall arrange for the *viva voce* examination.

If the *viva voce* examiners are also satisfied, the recommendations of the thesis and *viva* examiners shall be placed by the Research Degree Committee before the Faculty for necessary action.

*Doctor of Science (D.Sc.).*—A candidate for the Degree of Doctor of Science must be either (1) (a) a Doctor of Philosophy of this University of at least two years' standing, or (b) a Master of Arts or a Master of Science of this University of at least seven years' standing, or (2) (c) a Master of Arts or a Master of Science of at least seven years' standing of a University recognized by this University who has resided at the University for at least one year, or (d) a Doctor of Philosophy of another University recognized by the Allahabad University, who has

resided at the University for at least one year. Candidates under (b) and (c) must satisfy the Faculty that the work already done by them is of sufficient merit to earn exemption from the D.PHIL. Degree.

No candidate will be permitted to proceed to any research degree unless and until he has paid all dues as a student.

Every candidate who intends to supplicate for the said degree shall communicate his intention to do so to the Registrar stating the subject chosen by him for the thesis and support his application by submitting a copy of the subject of his study. He shall submit a certificate from two Members of the Faculty that he is a fit and proper person to supplicate for the Degree of Doctor of Science.

After the thesis is completed, the candidate shall supply five printed or typed copies of his thesis. The thesis shall comply with certain conditions.

If the majority of examiners report that the thesis is satisfactory, the University shall arrange the *viva voce* examination.

If the *viva voce* examiners are also satisfied, the recommendations shall be placed before the Faculty for necessary action.

*Doctor of Laws (LL.D.).*—A Master of Laws of the University of Allahabad or any person who has passed the Examination for Honours in Law of that University on or before 1st of November 1906, is admitted to the LL.D. Degree if he has written an essay approved by the Faculty of Law or by a Sub-Committee thereof and has produced a certificate from two Members of the Faculty of Law or two Doctors of Laws to the effect that since obtaining the Degree of Master of Laws or since passing the examination for Honours in Law, he has practised his profession with repute for at least five years or has contributed either by scholastic work or by literary production, to the advancement of Law and that in habits and character he is a fit person to receive the Degree.

### **Conditions of Readmission to the University Examinations**

A candidate who has failed once in a Degree Examination is allowed to reappear within five years without putting in the required terms but under certain prescribed conditions. A candidate who has attended a regular course of study for the Previous or Final Examination for the Degree of Bachelor of Laws is allowed to appear at any subsequent examination without attending a further regular course of study provided that he has attended a regular course of study within ten years immediately preceding the examination and provided also that

he has attended lectures either in the University School of Law previous to 1923 or in the Law Department of the University. A candidate who has attended a regular course of study for the Final M.A. or Final M.Sc. (Mathematics) Examination is allowed to appear at any subsequent examination without attending a further regular course of study provided that his application is recommended by the Dean of the Faculty concerned and provided also that he takes the subsequent examination within five years of his having attended a regular course of study. Any candidate who has failed in one subject of the B.A., B.Sc., or B.Com. Examination, but has attained the prescribed standard, is allowed to appear at a subsequent examination in that subject alone. Ex-students are required to pay an annual fee of Rs. 5 per year to appear at subsequent examinations.

*Post-graduate Diploma Course in Local Self-Government Administration.*—From the commencement of the Academic Session of 1941 the University has started a Post-graduate Diploma Course in Local Self-Government Administration. The duration of the course is one year. The Examination consists of 4 written papers, a *viva voce* and a practical training test.

### **Teaching of French, German, Italian, Military Science, Indian Music, Painting and Bengali**

The University provides for the teaching of French, German, Italian, Military Science and Indian Music and awards a Certificate of Proficiency and a Diploma in Indian Music after a course of two years. The classes are held out of University hours. They are open to students and members of the teaching staff but others may also be admitted with the previous permission of the Vice-Chancellor. Military Science can be offered by the members of the U.T.C. only.

Ordinances for a Diploma in Painting have been framed but classes have not yet been started. The fee for the teaching of French, German and Italian is Rs. 4 per month and that of Music Rs. 20 per session. The fee for a Certificate and Diploma is Rs. 10. The question of recognizing Military Science as an optional subject for the B.A. and B.Sc. Examinations is under consideration.

The Bengali Association of the University has undertaken to hold classes for the teaching of Bengali, and it is expected that classes will soon be started for the teaching of Marathi. A Certificate of Proficiency in Social Service and Village Uplift Work has been instituted and classes have been started, the annual fee being Rs. 6 and the examination fee Rs. 5. Classes for Laboratory, Workshop Training and for Photography have also been started, the fee is Rs. 3 per month each.

**Table of Examination Fees**

	Rs.
B.A. or B.Sc. (Pass) .. ..	30
B.A. (II Year Honours) in addition to the fee paid for the B.A. (Pass) Examination .. ..	5
B.A. (Honours) .. ..	20
B.Sc. (Honours) .. ..	20
Each Subsidiary Subject .. ..	10
B.A. III Year or M.Sc. (Previous) .. ..	20
M.A. (Final) or M.Sc. (Final) .. ..	30
B.Com. (Part I) .. ..	20
B.Com. (Part II) .. ..	20
M.Com. (Previous) .. ..	20
M.Com. (Final) .. ..	30
LL.B. (Previous) .. ..	30
LL.B. (Final) .. ..	40
LL.M. .. ..	100
D.PHIL. .. ..	150
D.LITT. in Arts .. ..	250
D.LITT. in Economics .. ..	250
D.Sc. .. ..	250
LI.D. .. ..	200
Certificate of Proficiency in French or German .. ..	10
Certificate of Proficiency in Military Science .. ..	10
Diploma in Indian Music .. ..	10
Diploma in Painting .. ..	10

# Andhra University

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## Introduction

The University was constituted to provide the Andhra Districts of the Madras Presidency with a University of their own. The affiliated and recognized colleges provide courses of study qualifying students for admission to University examinations including those in Oriental Languages, but excluding those for Honours degrees.

The University College of Arts and Commerce was opened on 1st July 1931; the Jeypore Vikrama Deo College of Science and Technology on 4th July 1932 and the Erskine College of Natural Sciences was opened in June 1941.

## Officers

The Principal Officers of the University are:—

### CHANCELLOR

His Excellency Captain the Honourable Sir Arthur Oswald Hope,  
G.C.I.E., M.C.

### PRO-CHANCELLOR

Maharaja Sree Sree Sree Dr. Vikrama Deo Varma,  
Hon. D.Litt. (Andhra), Maharajah of Jeypore,  
Jeypore (Orissa)

### VICE-CHANCELLOR

Dr. C. Ramalinga Reddy, M.A. (Cantab.), Hon. D.Litt. (Andhra),  
M.L.C.

### REGISTRAR

Dr. V. S. Krishna, B.A. (Oxon.), Ph.D. (Vienna)

### UNIVERSITY ORATORS

Mr. K. Sivaramakrishna Rao, M.A., L.T.  
Mr. Mirza Hasanali Ispahain Sahib Bahdur, B.A., B.L.

### HONORARY LEGAL ADVISER

Mr. L. Subba Rao, B.A., B.L.

The Vice-Chancellor is a whole-time salaried officer of the University.

### Authorities

The principal authorities of the University are:—

(1) The Senate, (2) The Syndicate, (3) The Academic Council, (4) The Faculties, and (5) The Boards of Studies.

The Senate consists of 100 members and is the supreme governing body.

The Syndicate consists of 14 members and is the chief executive body of the University.

The Academic Council which consists of 45 members, prescribes courses of study, determines the curricula, has general control of teaching within the University and is responsible for the maintenance of the academic standards thereof.

### University Representatives on Outside Bodies

#### I. THE INTER-UNIVERSITY BOARD, INDIA

1937—The Vice-Chancellor, Andhra University

#### II. THE INDIAN MEDICAL COUNCIL

1938—Mr. B. Tirumal Rao, L.M.S., F.R.C.S. (Edin.),  
L.R.C.P. & S. (Edin.), D.L.O. (Lond.),  
F.R.F.P.S. (Glas.)

#### III. THE MADRAS MEDICAL COUNCIL

1939—Mr. M. V. Krishna Rao, B.A., M.B.B.S.

#### IV. SELECTION COMMITTEE FOR SELECTING CANDIDATES FOR THE POST-GRADUATE COURSES IN AGRICULTURE, NEW DELHI

1938—The Vice-Chancellor, Andhra University

#### V. THE SANSKRIT ENTRANCE EXAMINATION BOARD

1939—(1) Mr. A. Venkatasastri, (2) Ubhayabhasha  
Praveena Jugal Kishore Panigrahi.

### Teaching Staff of the University

#### PRINCIPAL

Prof. S. Bhagavantam, M.Sc.

Mathematics

.. Reader: Dr. V. Ramaswami, B.A.  
(Cantab.), Ph.D. (Cantab.) (Head of  
the Department).

Lecturer (First Grade): Mr. M.  
Lakshmanamurti, M.A.

- Lecturers:* Mr. K. Nagabhushanam, M.A.; Mr. P. Ratnam, M.A. (Mad.), M.A. (Toronto).  
*Tutor:* Mr. K. Sambasiva Rao, M.A. (Hons.).
- Philosophy .. *Professor:* Dr. Saileswar Sen, M.A., D.Litt., D.Phil. (Head of the Department).  
*Lecturer (First Grade):* Dr. T. A. Purushottam, M.A., Ph.D. (London).  
*Lecturer:* Dr. P. T. Raju, M.A., Ph.D., Sastri.
- History, Economics and Politics *Professor:* Prof. M. Venkatarangaiya, M.A. (Head of the Department).  
*Reader:* Mr. G. Venket Rao, M.A., LL.B.  
*Hon. Reader in Economics:* Dr. A. Krishnaswami, M.A. (Cantab.), Ph.D. (Lond.).  
*Lecturer (First Grade):* Mr. N. Srinivasan, M.A. (Mad.), B.Sc. (Econs.) (Lond.).  
*Lecturers:* Mr. Ch. Sitarama Sastri, M.A., L.T.; Mr. K. V. Punneya, M.A. (Hons.); Mr. T. Satyanarayana Rao, M.A.  
*Tutor in Archæology:* Mr. M. Soma-sekhara Sarma.  
*Tutor in Economics:* Mr. B. Sarveswara Rao, B.A. (Hons.).
- Telugu .. *Lecturers (First Grade):* Mr. P. Lakshmikantam, M.A. (Head of the Department); Vidwan G. J. Somayajee, M.A., L.T., P.O.L.  
*Lecturer:* Mr. A. Ramakrishna Rao, B.A.  
*Pandit:* Vidwan Duvvuri Venkataramana Sastri.
- Commerce .. *Reader:* Mr. A. Seshagiri Rao, M.A., A.S.A.A. (Lond.) (Head of the Department).  
*Lecturers (First Grade):* Mr. V. K. Upadrasta, B.A., LL.B., A.S.A.A. (Lond.), R.A. (Lond.); Lt. T. P. Rajan, B.A., B.Com. (Edin.), A.I.R.O. (on deputation to war service).  
*Lecturers:* Mr. H. K. Datta, M.A. (com.); Mr. K. S. Sarma, M.Com., F.C.I.; Mr. E. Venkatesam, B.A., M.L. (Part-time).

*Tutor:* Mr. M. Sitaramayya, M.A. (com.), F.C.C.S.

## Physics

- .. *Honorary Professor:* Sir C. V. Raman, M.A., D.Sc., Ph.D., LL.D., F.R.S., N.L.  
*Ramachandra Deo Professor:* Mr. S. Bhagavantam, M.Sc. (Head of the Department).  
*Professor:* Dr. K. Rangadhama Rao, M.A., D.Sc. (Mad.), D.Sc. (Lond.).  
*Reader:* Dr. I. Ramakrishna Rao, M.A., Ph.D. (Cal.), D.Sc. (Lond.).  
*Gandhian Reader in Applied Mathematics:* Dr. N. S. Nagendra Nath, M.Sc., Ph.D. (Cantab.).  
*Lecturers:* Mr. B. Sundararama Rao, M.Sc. (Hons.); Mr. K. Venkateswarlu, M.Sc.  
*Lecture Assistant:* Mr. N. Rajeswara Rao, M.Sc.  
*Demonstrator:* Mr. J. Bhimasenachar, M.Sc.  
*Instruments Manufacturing Section:*  
*Technician Lecturers:* Mr. P. Pattabhiramayya, M.A., M.Sc. (Hons.); Mr. S. T. Krishnaswami Chetty, M.A.  
*Demonstrator:* Mr. V. Krishnamurty, M.Sc.

## Chemistry

- .. *Vikrama Deo Professor:* Dr. T. R. Seshadri, M.A., Ph.D. (Manchester), F.I.C. (Lond.), F.A.Sc. (Head of the Department).  
*Reader:* Dr. G. Gopala Rao, M.Sc. A.I.C. (Lond.), D.Sc. (Allahabad).  
*Lecturer (First Grade):* Dr. Bh. S. V. Raghava Rao, M.Sc., Ph.D. (Lond.), A.I.C., A.I.S.Sc.  
*Lecturers:* Dr. K. Neelakantam, M.A., Ph.D. (Andhra), D.I.C. (Lond.), F.A.Sc. (Lond.); Mr. P. Suryaprakasa Rao, M.Sc. (Hons.).  
*Lecture Assistant:* Mr. B. Krishnaswami, B.Sc. (Hons.).  
*Ceramics Assistant:* Mr. N. B. V. Krishna Rao, M.Sc.  
*Micro-Analyst:* Mr. G. V. L. N. Murty, M.Sc.



- Demonstrators*: Mr. L. Ramachandra Rao, B.Sc. (Hons.); Mr. V. D. Nageswara Sastry, B.Sc. (Hons.); Mr. K. Satyanarayanamurthy, M.Sc.
- Chemical Technology** *Reader*: Mr. C. Venkata Rao, M.Sc. (Hons.). (Tech.), D.I.C. (London) (Head of the Department).  
*Lecturers*: Mr. M. L. Khorana, M.S. (Michigan); Mr. J. Venkateswarlu, M.Sc.; Mr. C. J. Dasa Rao, M.Sc. (Hons.); Mr. D. Sitapati Rao, B.A., B.Sc. (Engg.); Mr. N. V. Subba Rao, M.Sc. (Hons.).  
*Lecturer (Part-time)*: Mr. T. V. R. Naidu, B.Sc., B.Sc. (Engg.).  
*Goutami Lecturer in Biochemistry*: Dr. K. V. Giri, M.Sc. (Hons.), D.Sc., A.I.I.S.C.
- Demonstrators*: Mr. P. Bhaskararamamurthy, B.Sc. (Hons.); Mr. M. Lakshmipathi Sarma, M.Sc.
- Manufacturing Pharmacist*: Dr. S. Rangaswamy, M.A., Ph.D. (Andhra).
- Geology** .. *Professor*: Dr. K. P. Rhode, M.Sc. (Benares), Ph.D. (Zurich) (Head of the Department).  
*Lecturer*: Mr. C. Karunakaran, M.Sc.
- English** .. *Lecturer (First Grade)*: Mr. M. V. N. Subba Rao, M.A.  
*Lecturer*: Mr. B. Muthuswami, B.A. (Hons.).
- French and German** *Lecturer*: Mr. S. T. Krishnamachari, B.A., B.L., C.P.F. (Paris), D.I.A. (Berlin).
- Hindi** .. *Pandit*: Vidwan V. Venkateswara Sarma, Visarad, B.O.L., Shastri.
- Oriya** .. *Pandit*: Vidya Praveena Madhusudhan Shodangi.

### Other Members of the University Staff:—

#### ADMINISTRATION

- (1) Engineer .. Mr. T. V. R. Naidu, B.Sc., B.Sc. (Engg.).  
 (2) Librarian .. Mr. S. B. Satchidanand, B.A. (*Offg.*).  
 (3) Medical Adviser Mr. M. V. Krishna Rao, B.A., M.B.B.S.  
 (4) Physical Director Mr. M. Chidanandam, B.A., Dip. in Phy. edn.

## Colleges with Names of Principals

### *University Colleges, Waltair*

Prof. S. Bhagavantam, M.Sc.

### PROFESSIONAL COLLEGES

#### *Andhra Medical College, Vizagapatam*

Major F. A. B. Sheppard, O.B.E., F.R.C.S. (Edin.), I.M.S.

#### *Government Training College, Rajahmundry*

Mr. J. Satyanarayanamurti, M.A.

### FIRST GRADE COLLEGES

#### *Pittapur Raja's College, Cocanada*

Mr. A. R. Ponnuswami Ayyar, M.A., L.T. (Lecturer-in-charge).

#### *Andhra Christian College, Guntur*

Rev. Dr. H. H. Sipes, M.A., Ph.D.

#### *Hindu College, Masulipatam*

Mr. K. Sivarama Krishna Rao, M.A., L.T.

#### *Maharaja's College, Parlakimedi*

Mr. S. P. Ragland, M.A., L.T.

#### *Government Arts College, Rajahmundry*

Mr. T. Suryanarayana, B.A. (Cantab.).

#### *Maharaja's College, Vizianagaram*

Mr. S. Purushotham, M.A., L.T.

### SECOND GRADE COLLEGES

#### *Kallikote College, Berhampur*

Mr. G. Dharma Rao, M.A.

#### *S. R. R. College, Bezvada*

Dr. P. Srinivasachari, M.A., Ph.D. (Lond.) (Acting).

#### *Hindu College, Guntur*

Mr. B. Ramachandra Rao, M.A., L.T.

#### *Venkatagiri Raja's College, Nellore.*

Mr. M. S. Raghavan, M.A.

#### *Mrs. A. V. N. College, Vizagapatam*

Mr. S. Parthasaradhi Naidu, M.A., L.T.

### COLLEGES FOR ORIENTAL STUDIES

#### *Narasimha Sanskrit College, Chittigudur (Kistna Dt.)*

Mr. S. T. G. Varadachari, M.A.

#### *Sri Sarada Niketanam, Guntur*

Mr. V. V. R. Somayajulu, B.A.

#### *S. V. J. V. Sanskrit College, Kovvur*

Mr. J. Purushottam, M.A.

*Sanskrit College, Nellore*

Mr. G. Hanumat Sastry, M.A.

*Andhra Yuwati Samskruta Kalasala, Rajahmundry*

Ubhayabhasha Praveena Srimati B. Kamakshamma.

*Kota Lakshmayya Naidu Sanskrit College, Tenali*

Mr. C. Dakshinamurti, M.A., B.L.

*Maharaja's Sanskrit College, Vizianagaram*

Mr. P. V. Ramanujaswami, M.A.

### Number of Students in the University in 1941

Names of Colleges	No. of Students
I. UNIVERSITY COLLEGES	
University College of Arts and Commerce, Waltair ..	253
Jeypore Vikrama Deo College of Science and Technology, Waltair .. ..	116
Erskine College of Natural Sciences, Waltair ..	15
II. PROFESSIONAL COLLEGES	
Government Training College, Rajahmundry ..	110
Andhra Medical College, Vizagapatam ..	283
III. FIRST GRADE COLLEGES	
Pittapur Raja's College, Cocanada .. ..	888
Andhra Christian College, Guntur .. ..	692
Hindu College, Masulipatam .. ..	554
Maharaja's College, Parlakimedi .. ..	165
Government Arts College, Rajahmundry ..	369
Maharaja's College, Vizianagaram .. ..	339
IV. SECOND GRADE COLLEGES	
Kallikote College, Berhampur .. ..	116
S. R. R. College, Bezvada .. ..	145
Hindu College, Guntur .. ..	324
Venkatagiri Raja's College, Nellore .. ..	372
Mrs. A. V. N. College, Vizagapatam .. ..	290
V. ORIENTAL COLLEGES	
Narasimha Sanskrit College, Chittigudur ..	37
Sri Sarada Niketanam, Guntur .. ..	12
S. V. J. V. Sanskrit College, Kovvur .. ..	29
Sanskrit College, Nellore .. ..	25
Andhra Yuwati Samskruta Kalasala, Rajahmundry ..	27
Kota Lakshmayya Naidu Sanskrit College, Tenali ..	17
Maharaja's Sanskrit College, Vizianagaram ..	79

**Number of Successful Candidates in the University  
Examinations of September 1939 and March-April 1940**

S. No.	Name of Examination		No. of Candidates Examined	No. of Candidates Passed
1.	Matriculation	March ..	100	31
2.	Intermediate Examination—			
		March-April ..	1,874	714
		September ..	922	305
3.	B.A.	April ..	427	205
		September ..	233	93
4.	B.Sc.—Part I	April ..	89	49
		September ..	32	23
5.	Do. Part II	April ..	60	36
		September ..	18	10
6.	B.A. (HONS.)—			
	Part I	April ..	23	13
		September ..	8	6
7.	Do. Final	April ..	13	11
8.	B.Sc. (HONS.)—			
	Part I	April ..	25	16
		September ..	6	3
9.	Do. Part II	April ..	22	15
10.	B.COM.—Part I	April ..	55	29
		September ..	28	22
11.	Do. Part II	April ..	70	26
		September ..	39	19
12.	B.COM. (HONS.)—			
	Part I	April ..	9	8
		September ..	5	3
13.	Do. Final	April ..	14	9
14.	M.Sc.	April ..	11	10
15.	B.ED.	April ..	117	102
16.	Pre-Registration	March ..	20	16
		January ..	51	31

S. No.	Name of Examination	No. of Candidates Examined	No. of Candidates Passed
17.	First M.B. & B.S. Whole Examination—		
	March ..	1	
	December ..	..	..
	Part I March ..	4	3
	December ..	27	22
	Part II March ..	28	13
	December ..	40	22
18.	Second M.B. & B.S. Whole Examination—		
	March ..	..	..
	December ..	..	..
	Part I March ..	5	4
	December ..	30	25
	Part II March ..	22	15
	December ..	30	22
19.	Final M.B. & B.S. Whole Examination—		
	May ..	12	4
	December ..	10	1
	Part I March ..	16	16
	December ..	18	17
	Part II May ..	33	24
	December ..	31	19
20.	M.D. Degree Examination		
	May ..	2	..
21.	Admission Test to Bhasha Praveena Course—		
	Telugu Main		
	March ..	45	32
22.	Oriental Title—		
	Preliminary		
	March–April ..	61	40
	Preliminary and Final		
	March–April ..	5	4
	Final March–April ..	62	42
	Certificate of Proficiency in Oriental Learning—		
	March ..	6	3

### Benefactions

The total value of benefactions received by the University up to the end of 1940–41 is Rs. 13,42,259.

# **ENDOWMENTS** **Abstract Statement of Endowments**

Name of Endowment	Name of Donor	Total Value	Annual Income	Purpose
1. Maharaja of Jeypore Endowment	GENERAL Sree Sree Maharajah Dr. Vikrama Deo Varma Garu, Hon. D.Litt. (Andhra), Maharajah of Jeypore	Rs. 1 lakh every year till a capital sum of Rs. 15 lakhs is paid independently of the 1 lakh donation	Rs. 1,00,000	To meet the recurring expenditure of the Jeypore Vikrama Deo College of Science and Technology
2. Maharajah of Bobbili Endowment	Maharajah Sri Rao Sir Venkata Sweta Chalapathi Ranga Rao Bahadur, G.C.B.E., Maharajah of Bobbili	Rs. 1,00,000	6,205	For encouragement of Telugu and Sanskrit Learning
3. Rajah of Panagal Endowment	Rajah Ramaravanim Garu, M.L.C., Rajah of Panagal	Rs. 30,000	5,000 + 1,500	For Instituting a Readership in Experimental Psychology
4. H. E. H. The Nizam's Endowment	H. E. H. The Nizam's Government	Rs. 1,00,000	.	For purposes of the University Buildings
5. His Highness The Maharajah and Her Highness The Maharani of Travancore's Endowment	His Highness The Maharajah and Her Highness The Maharani Setu Parvathi Bayi of Travancore	Rs. 1,00,000	..	For purposes of the University Buildings

Name of Endowment	Name of Donor	Total Value	Annual Income	Purpose
6. Sir Alladi Krishnaswami Aiyar Endowment	GENERAL (Contd.) Sir Alladi Krishnaswami Aiyar, Advocate-General, Madras	Ten-year Endowment of Rs. 1,000 per year	Rs. 1,000	For arranging lectures by distinguished Scholars
7. Mr. Tikkavarapu Rami Reddy and his Daughters' Endowment	Mr. T. Rami Reddy of Nellore and his daughters Kumari T. Syamala and Kumari T. Lakshmikantam	Rs. 25,000	..	For the construction of T. L. N. Reddy Sabha
8. The Vice-Chancellor's Fund	Dr. C. R. Reddy, M.A. (Cantab.), Hon. D.Litt. (Andhra), M.L.C.	Rs. 1,000 every month upto 31-3-41 Rs. 500 every month from 1-4-41	12,000 upto 31-3-41 6,000 from 1-4-41	For purposes of benefit to the University
9. East Godavary District Board Endowment	East Godavary District Board	Rs. 3,000 per year	3,000	For instituting the Goutami Lecturership and Fellowship
10. West Godavary District Board Endowment	West Godavary District Board	Rs. 4,200 per year	4,200	For founding the Gandhian Chair
1. Kistna District Board Research Fellowships and Research Scholarships	RESEARCH FELLOWSHIPS AND RESEARCH SCHOLARSHIPS Kistna District Board	Rs. 50,000	2,564	For awarding 2 Research Fellowships for D.Sc. and 2 Research Scholarships for M.Sc.

2. Guntur District Board Research Fellowships	Guntur District Board	Rs. 40,000	1,953	For awarding 2 Research Fellowships
3. Cocanada Municipality Research Fellowship	Municipal Council, Cocanada	Rs. 1,000	1,000	For awarding one Research Fellowship for D.Sc. of the monthly value of Rs. 30 in the Technology Department
4. The Vizagapatam Electric Supply Corporation Research Fellowship	The Vizagapatam Electric Supply Corporation, Ltd., Vizagapatam	Rs. 360 per year for a period of 3 years	360	For awarding one Research Fellowship of the monthly value of Rs. 30 in Physics or in any other allied subject
5. Dr. C. R. Reddy Research Fellowship	Mr. P. V. Krishnayya Chowdary	Rs. 360 per annum	360	For awarding a Research Fellowship
6. Goutami Research Fellowship	East Godavary District Board	From the annual donation of Rs. 3,000	360 per annum	For instituting a Research Fellowship in Bio-Chemistry
7. Chittoor District Board Research Fellowship	Chittoor District Board	Rs. 360 per annum	360	For awarding a Fellowship of the monthly value of Rs. 30 for research in the J. V. D. College of Science and Technology
8. K. V. Narasingarao Research Scholarship	Dr. K. Rangadhama Rao, Professor in Physics, Andhra University	Rs. 30 per month	360	For instituting a Research Scholarship in memory of his father
9. The Vizagapatam Municipality Research Scholarships	Municipal Council, Vizagapatam	Rs. 400	400	For awarding 2 Research Scholarships each of the monthly value of Rs. 20 for 10 months in Science



Name of Endowment	Name of Donor	Total Value	Annual Income	Purpose
RESEARCH FELLOWSHIPS AND RESEARCH SCHOLARSHIPS (Contd.)				
10. The Rajahmundry Municipality Research Scholarship	Rajahmundry Municipality	Rs. 360 per annum	360	For 1 Research Scholarship in Science subjects
11 & 12. Sree Krishna Chandra Deo Scholarship Srimati Rekha Devi Scholarship	Sree Sree Maharajah Dr. Vikrama Deo Varma, Hon. D. it. (Andhra). Maharajah of Jeypore	Part of the Maharaja of Jeypore Endowment	20 per month	For awarding Studentships to deserving Oriya students in the University Colleges
13. Goschen Scholarships	Goschen Memorial Fund Committee, Madras	Rs. 8,700	455	For instituting four Scholarships each of the annual value of Rs. 108 (2 in Junior and 2 in Senior B.A.)
STUDENTSHIPS				
1. Andhra Insurance Co., Studentships	Andhra Insurance Co., Ltd., Masulipatam	Rs. 360 per annum	Rs. 360	For awarding 3 Studentships of Rs. 120 each to B.Com. (Hons.) Students
2. Andhra Scientific Co. Studentships	Andhra Scientific Co., Ltd., Masulipatam	Rs. 360	360	For awarding 3 studentships of Rs. 120 each in the Physics or Chemistry Department

3. V. P. Brahmananda Sastri Studentships	Mr. V. P. Brahmananda Sastri, Rajahmundry	Rs. 6,000	210	For awarding 3 Studentships each of the annual value of Rs. 70 in the Telugu Department
4. Anantapur District Board Studentships	Anantapur District Board	Rs. 350 per annum	350	For 1 Senior and 1 Junior Studentship in History
5. Ellore Municipality Studentships	Ellore Municipality	Rs. 360	360	For awarding 2 Studentships
6. The Vizianagaram Municipality Studentships	Vizianagaram Municipality	Rs. 360 per annum	360	For 2 Studentships in Chemical Technology
7. Guntur Municipality Studentships	Guntur Municipality	Rs. 750	750	For awarding 4 Studentships each of the monthly value of Rs. 20 tenable for nine months in the University College of Arts
8. The Maharajah of Jeypore Studentship	The Maharajah of Jeypore	Rs. 8,000	240	For 1 Studentship in Physics to 1 Oriya candidate
9. Rajah of Challapalli Studentship	Rajah of Challapalli	8,000	240	For 1 Studentship in Chemistry
PRIZES				
1. Vangala Vanalata Devi Prize (for women)	Dr. V. S. Ram, M.A., Ph.D., F.R.H.S., Lucknow University	1,200	68	B.A. (Hons.) or Pass—History
2. V. Somasundara Rao Prize	Mr. Voruganti Somasundara Rao Pantulu, Vizianagaram	700	21	B.A. (Hons.)—Telugu

Name of Endowment	Name of Donor	Total Value	Annual Income	Purpose
	PRIZES ( <i>Contd.</i> )	Rs.	Rs.	
3. Sreemati Ishwaradevi Sahni Prize (for women)	Dr. B. Sahni, Lucknow University	1,000	39	B.A. (Hons.) or Pass
4. Sir George Stanley Prize	His Excellency Lt.-Col. the Rt.-Hon'ble Sir George Frederick Stanley, P.C., G.C.S.I., G.C.I.E., C.M.G., Governor of Madras	1,250	46	B.A. (Hons.), Part I or B.Sc. (Hons.), Part I—English
5. Eka (Yeka) Dandiah Pantulu Prize	Mr. Eka Dandiah Pantulu	700	24	B.A., Part II—Sanskrit. If none, Oriental Titles
	MEDALS			
1. S. Krishnaswami Aiyar Medal	Sreemati Meenakshi Krishnaswami Aiyar, wife of the late Principal	1,200	44	Inter. Physics
2. A. N. P. D. Krishnamacharlu Medal	Dharmavaram Krishnamacharlu Memorial Committee, Bellary	1,500	69	Inter. Telugu, Part II
3. Sir R. Venkataratnam Intermediate Medal	Sir R. Venkataratnam Shashipurthi Celebration Committee, Cocanada	1,200	52	Inter. Merit with a First Class

4. Srimati S. Annapur- namma Medal (for women)	Mr. V. Purnaia Pantulu, Sub- Judge, Rajahmundry	1,200	56	Inter., All Parts
5. Prabhala Sundara Ram- ayya Pantulu's Medal	Mr. Prabhala Sundara Ram- ayya Pantulu, B.A., B.L., Dowlaiswaram, East Goda- vari District	2,000	55	B.A., Part II—Telugu
6. K. V. Lakshmana Rao Medal	Nayana Venkata Ranga Rao Reddy Garu, Zamindar of Munagala	1,500	73	B.A.—Indian History
7. Bala Saraswati I. Pad- mavati Devi Medal (for women)	Mr. Inturi Kotayya Naidu, B.A., Tahsildar, West Goda- vari District	1,400	55	B.A.—Music (until courses in Music are opened, for Telugu under Part II)
8. Sir R. Venkataratnam B.A. Medal	Sir R. Venkataratnam Shashti- purti Celebrations Commit- tee, Cocanada	1,200	52	B.A.—Optional Branches
8. First Pro-Chancellor's Medal	Maharajah Sri Rao Sir Ven- kata Swetachalapathi Ranga Rao Bahadur, G.C.B.E., Maha- rajah of Bobbili, the First Pro-Chancellor	2,000	60	B.A., All Parts
10. Mantrinragada Nagen- dra Sayi Medal	Rao Bahadur M. Narasim- ham, Member, Public Service Commission, Madras	2,000	55	B.A., Part III—English
11. The Kalaprapurna Ja- yanti Ramayya Pantulu Medal	Jayanti Ramayya Pantulu Medal Committee	2,000	55	B.A., Part III—Telugu and Early South Indian History

Name of Endowment	Name of Donor	Total Value	Annual Income	Purpose
	<b>MEDALS (Contd.)</b>	Rs.	Rs.	
12. General MacDonal Medal	Some friends of the late Major-General MacDonal	2,100	88	B.A. (Hons.) or Pass—English
13. Ch. Sanyasiraju Medal	Mr. Chevuru Subba Rao, Vizianagaram	1,500	75	B.A. (Hons.)—Mathematics
14. T. Sambaiya Medal	Mr. V. S. Tamma, M.Sc., Vice-Principal, Meerut College	1,500	76	B.Sc.—Physics Main
15. General Sir Arthur Cotton Medal	General Sir Arthur Cotton Memorial Committee	2,000	55	B.Sc. (Hons.)—(Tech.) Main
16. Sripathi Medal	Rao Sahib Sripati Seetapati Rao, B.A., B.L., Vizagapatam	2,900	108	B.Sc. (Hons.)—Main and Sub.
17. The Metcalfe Medal	The Metcalfe Memorial Committee, Rajahmundry	1,530	52	M.Sc.—Physics
18. Anderson Medal	One interested in the cause of higher Medical education	1,200	54	M.B.—Anatomy and Embryology
19. Kameswari Viswanath Medal	Mr. D. A. Narasimham, M.A., L.T.	1,500	85	Vidya Praveena—Sanskrit
20. Sir R. Venkataratnam Post-Graduate Medal (for thesis)	Sir R. Venkataratnam Shasthi-purthi Celebration Committee	1,200	78	B.A. (Hons.) and M.A. Degree holders of this University

21. Dr. A. Lakshmipathi Medal (for thesis)	Dr. A. Lakshmipathi, M.B.C.M., Madras	1,000	59	Essay
22. Sreemati Raghupati Seshamma (Lady R. Venkataratnam) Medal (for women)	Sreemati P. Babayamma	1,600	55	Degree Examination
23. Dr. S. Rangachari Medal	Sreemati Kamala Rangachari	1600	55	M.B.B.S.—Operative Surgery
24. Dr. S. Rangachari Surgery Medal	Mr. R. Ramjeedas Aiyar, Zamindar of Kannivadi	1,500	52	M.B.B.S.—Surgery
25. Jayanti Subhadra Devi Medal (for women)	Mr. Jayanti Satyanarayana-murty, M.A., Principal, Government Training College, Rajahmundry	1,200	55	First, Second and Final M.B.B.S. Examinations
26. Major Ebdon Memorial Medal	Major Ebdon Memorial Committee	2,000	Interest on 2,000	M.S.

## Library

### OFFICIATING LIBRARIAN:

Mr. S. B. Sachidanand, B.A.

Subject to the control of the Syndicate and the Academic Council, the University Library is managed by the Library Committee consisting of all the Heads of the Departments of the University Colleges and two members elected by the Academic Council and with the Vice-Chancellor as *ex-officio* President.

The Library has a collection of about 39,050 volumes including about 800 palm leaf manuscripts and 150 estampages of inscriptions. The average number of books purchased and the average expenditure on books and periodicals every year are Rs. 1,500 and Rs. 15,000 respectively. About Rs. 5,000 is spent on periodicals alone. The number of periodicals including dailies subscribed for by the Library is about 230.

The classification scheme adopted in the Library is according to Dewey with certain modifications. In place of a printed catalogue a card catalogue is in use with author, title and subject entries mixed.

The facilities of the Library are open not only to teachers and students of the University Colleges, but also to Registered Graduates of the University and other persons approved by the Vice-Chancellor on certain conditions. Except to certain special collections there is open access to books on the shelves and the readers are at liberty to consult or examine any book they require without any restriction whatsoever.

The stack-room is also the main reading source of the Library. Individual cubicles are provided for research workers on the balcony of the Reading Room.

Except on certain special holidays, the Library is generally open from 7-30 a.m. to 5 p.m. on all days including Sundays and Government holidays. During vacations for the University Colleges, it works from 10-30 a.m. to 4-30 p.m.

The following are among the principal donors of books to the University Library:—

	Volumes
Late D. Lakshminarayan, Kampte	5,000
Dr. S. R. U. Savur .. ..	700
Sir J. C. Coyajee .. ..	300
Vidwan G. Somanna .. ..	200
H.E. The French Consul for Madras	300

### Budget

The University depends on Government grants to meet the routine expenditure. The Madras Government have sanctioned an annual contribution of Rupees one lakh and a half. In addition they made in 1930 an Endowment Grant of Rs. 27 lakhs, and a non-recurring grant of Rs. 7½ lakhs for buildings and equipment of the University and in 1938 they donated to the University and handed over an extent of 34 acres 11 cents of land in the Forest Compound (Govt. property) for the use of the University for building purposes and placed at the disposal of the University.

The Maharaja Saheb of Jeypore has been contributing each year a lakh of rupees for the maintenance of the College of Science and Technology and the College was named after him as the "Jeypore Vikrama Deo College of Science and Technology".

The Government sanctioned a non-recurring grant of Rs. 3,50,000 towards the institution of the Erskine College of Natural Sciences and a recurring grant of Rs. 39,600 towards the cost of employment of Professors and Readers in the Natural Science College.

### Provident Fund

Members of the University Staff, excluding the Vice-Chancellor, drawing a salary of Rs. 20 and above per mensem are members of the University Provident Fund. The members are eligible for gratuity at the time of their retirement.

### Degrees and Titles

The following are the Degrees instituted in the University :—

#### *Faculty of Arts—*

- Bachelor of Arts (B.A.).
- Bachelor of Arts Honours (B.A. HONS.).
- Bachelor of Commerce (B.COM.).
- Bachelor of Commerce Honours (B.COM. HONS.).
- Master of Arts (M.A.).
- Doctor of Philosophy (PH. D.).
- Doctor of Letters (D.LITT.).

#### *Faculty of Science—*

- Bachelor of Science (B.Sc.).
- Bachelor of Science Honours (B.Sc. HONS.).
- Master of Science (M.Sc.).
- Doctor of Science (D.Sc.).

#### *Faculty of Teaching—*

- Bachelor of Education (B.ED.).
- Master of Education (M.ED.).



*Faculty of Medicine—*

Bachelor of Medicine and Surgery (M.B. & B.S.).  
 Doctor of Science (D.Sc.).  
 Doctor of Medicine (M.D.).  
 Master of Surgery (M.S.).

*Faculty of Oriental Learning—*

Title in Oriental Learning (Vidya Praveena).  
     Do. do. (Bhasha Praveena).  
     Do. do. (Alim-i-Fazil).  
     Do. do. (Munshi-i-Kamil).  
 Certificate of Proficiency in Oriental Learning (P.O.L.).  
 Master of Oriental Learning (M.O.L.).  
 Kala Prapurna (K.P.), Honorary Doctorate Degree.

*Faculty of Fine Arts—*

Diploma in Music.

The Degrees of D.Litt. and D.Sc. may also be conferred as Honorary Degrees.

**Courses of Study for the Several Examinations**

Admission to courses of study in the University is granted to those who have passed the Matriculation Examination of this University or that of any other University recognized as equivalent thereto.

The external examinations mentioned below are recognized as equivalent to the examinations noted against them for the purposes specified:—

A. Equivalent to the normal test of admission to the Junior Intermediate class of the Andhra University for the purpose of admission to this class:

- (1) Secondary School Leaving Certificate Examination conducted under the authority of the Provincial Government, Mysore S.S.L.C., Hyderabad H.S.L.C. (first and second class only), Travancore E.S.L.C., Cochin S.S.L.C., and Royal Indian Military College Diploma.
- (2) Matriculation Examination of any other statutory Indian University.
- (3) The Cambridge Senior Certificate Examination.
- (4) European High School Examination.
- (5) London Matriculation Examination.
- (6) Oxford School Certificate Examination.
- (7) Dufferin Final Passing out Certificate Examination in respect of both Executive and Engineering Cadets.

- (8) High School Examination of Board of High School and Intermediate Education, Rajputana, Central India and Gwalior, Ajmere.
- (9) The High School Examination conducted by the Board of High School and Intermediate Education, Allahabad.
- (10) The High School Examination conducted by the Board of Secondary Education, Delhi.

B. Equivalent to the Intermediate Examination of the Andhra University for the purposes of admission to the B.A. and Medical courses of the University:

- (1) The Intermediate Examination of all other statutory Indian Universities.
- (2) Intermediate Examination of Board of High School and Intermediate Education, Rajputana, Central India and Gwalior, Ajmere.
- (3) Intermediate Examination in Commerce of Board of High School and Intermediate Education, Rajputana, Central India and Gwalior, Ajmere. (Subject to the conditions imposed on candidates taking commercial subjects in Inter. Examinations of the Andhra University.)
- (4) Intermediate Examination conducted by the Board of High School and Intermediate Education (United Provinces)—Allahabad.

C. Equivalent to the Bachelor's Degree Examination of the Andhra University for the purpose of admission to the Bachelor of Education course of the University.

- (1) The B.A. and B.Sc. Degree Examinations of all other statutory Indian Universities and of Mysore University.
- (2) The B.Com. Degree Examination of all other statutory Indian Universities.

### ***I. Matriculation Examination:***

(a) Courses and Papers—

(i) English (2 papers, each of 2½ hours' duration).

(ii) A Second Language (one paper).

(Any one of the following languages—Sanskrit, Arabic, Persian, French, German, Telugu, Kannada, Tamil, Oriya, Sinhalese, Hindi, Urdu, Marathi, Malayalam.)

- (iii) Mathematics (2 papers)--Arithmetic and Algebra—3 hours; Geometry—2½ hours.
- (iv) Elementary Science (1 paper)—3 hours.
- (v) History and Geography (2 papers), History—2 hours; Geography—2 hours.
- (b) Marks qualifying for a pass in—
  - (i) each subject: (i) 40 per cent. in English and 35 per cent. in (ii) to (v);
  - (ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class rest.

## II. *Intermediate Examination:*

(a) Duration—Two years.

(b) Courses and Papers—

PART I.—English.

- (1) Poetry—3 hours.
- (2) Prose—3 hours.
- (3) Composition—3 hours.

PART II.—A Second Language.

(Any one of the following languages—Sanskrit, Latin, Arabic, Persian, Pali, French, German, Telugu, Kannada, Tamil, Oriya, Hindi, Urdu.)

- (1) Prescribed Text-Books—3 hours.
- (2) Translation for Classical Languages and Composition and Translation for Modern Indian Languages—3 hours.

PART III.—Optional Subjects.

[Any three of the following from prescribed combinations—(1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Zoology, (6) Geography, (7) Logic, (8) Indian History, (9) British History, (10) World History in outline, (11) Civics and Indian Administration, (12) A third language—an advanced course if the language taken be one taken under Part I or II or a less advanced course in a really third language, (13) Economic Geography and Economic History, (14) Economics and Banking, (15) Accountancy and General Commercial Knowledge, (16) Agriculture, (17) Electrical Engineering, (18) Mechanical Engineering, (19) Surveying, (20) Drawing, (21) Music.]

First Paper. (in each of the above subjects—2½ hours).

Second Paper (in each of the above subjects—2½ hours).

(c) Marks qualifying for a pass in—

- (i) each subject under Part I, Part II and Part III: 35 per cent.;
- (ii) first class 50 per cent. and above; second class 35 per cent. and above.

### III. B.A. Degree Examination:

(a) Duration: Two years.

(b) Courses and Papers—

PART I.—English Language and Literature.

- (1) Composition—3 hours.
- (2) Modern Poetry—3 hours.
- (3) Shakespeare—3 hours.
- (4) Modern Prose—3 hours.

PART II.—A Second Language.

(Any one of the following languages—Sanskrit, Latin, Arabic, Persian, Pali, French, German, Telugu, Kannada, Tamil, Oriya, Hindi, Urdu.)

- (1) First Paper—3 hours.
- (2) Second Paper—3 hours.

PART III.—One of the following optional groups:

*Group (i)—Mathematics.*

- (1) Algebra and Trigonometry—3 hours.
- (2) Astronomy or Statistics—3 hours.
- (3) Pure and Analytical Geometry—3 hours.
- (4) Calculus—3 hours.
- (5) Dynamics—2 hours.
- (6) Hydrostatics and Properties of Matter—2 hours.

*Group (ii) (A)—Physics Main with Chemistry or Mathematics Subsidiary.*

*Physics Main—*

- (1) Dynamics and Hydrostatics—2 hours.
  - (2) Properties of Matter and Heat—2 hours.
  - (3) Light and Sound—2 hours.
  - (4) Electricity and Magnetism—2 hours.
- One Practical.  
Laboratory Record.

*Chemistry Subsidiary:* (same as for B.Sc. Chemistry Subsidiary)—

- (1) Chemistry Written—3 hours.
- One Practical.

*Mathematics Subsidiary*: (same as for B.Sc.) *Mathematics Subsidiary*—•.

- (1) Algebra, Trigonometry and Analytical Geometry—3 hours.
- (2) Calculus and Differential Equations—3 hours.

*Group (ii) (B)—Chemistry Main with Physics Subsidiary.*  
*Chemistry Main*—

- (1) Inorganic Chemistry—3 hours.
- (2) Physical Chemistry—3 hours.
- (3) Organic Chemistry—3 hours.  
One Practical.  
Laboratory Record.

*Physics Subsidiary*: (same as for B.Sc. Physics Subsidiary).

- (1) Physics Written—3 hours.  
One Practical.

• *Group (iii) (A)—Philosophy.*

- (1) Psychology—I, Paper—2 hours.
- (2) Psychology—II Paper—2 hours.
- (3) Ethics—3 hours.
- (4) Logic and Theory of Knowledge—3 hours.
- (5) European Philosophy—2½ hours.
- (6) Indian Philosophy—2½ hours.

*Group (iii) (B)—Philosophy.*

- (1) Psychology—I Paper—2 hours.
- (2) Psychology—II Paper—2 hours.
- (3) Ethics—3 hours.  
Any one of (4) and (5) below:
- (4) European Philosophy—2½ hours.
- (5) Optional subject other than European Philosophy—2½ hours.  
Any two of (6), (7) and (8) below:—
- (6) Economics General—3 hours.
- (7) Politics—2½ hours.
- (8) Sociology—2½ hours.

*N.B.*—Papers same as those in the corresponding subjects for groups iii-A, iv and v.

*Group (iv)—History and Economics (History Main).*

- (1) Politics—3 hours.
- (2) Indian History—Special Period—3 hours.
- (3) Constitutional History of India—British Period—3 hours.
- (4) Modern History—3 hours.
- (5) Economics General—3 hours.

• *Group (v)—History and Economics (Economics Main).*

- (1) Modern History—3 hours.
- (2) Sociology—3 hours.
- (3) Economics Special I—3 hours.
- (4) Economics Special II—3 hours.
- (5) Economics General—3 hours.
- (6) Politics—3 hours.

*Group (vi)—One of the following:—*

- (1) Sanskrit and Early Indian History.
- (2) Pali and Early Indian History or Sanskrit.
- (3) Arabic or Persian and Early Muslim History.
- (4) Urdu and Indian History (Muslim Period) or Arabic or Persian.
- (5) Dravidian Language or Oriya and a related subject or Sanskrit.
- (6) Hindi and Mediæval History of North India or Sanskrit.
- (7) English.

*Papers.—*

- (1) First Paper—3 hours.
- (2) Second Paper—3 hours.
- (3) Third Paper—3 hours.
- (4) Fourth Paper—3 hours.
- (5) Fifth Paper—3 hours.
- (6) In case of (1) to (6)—  
Related subject or language—3 hours.
- In case of (7)—  
General Essay—3 hours.

• *Group (vii)—Music.*

- (1) Written Theory and History of Music I—3 hours.
- (2) Written Theory and History of Music II—3 hours.  
Practicals—Compositions, Ragas, Svaras.

(c) Marks qualifying for a pass in—

- (i) each subject under Part I, Part II and Part III: 35 per cent.;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; third class 35 per cent. and above.

**IV. B.A. Honours Degree Examination:**

(a) Duration: Three years.

(b) Courses and Papers—

Preliminary—

- (1) English—3 hours.
- (2) Translation—2 hours.  
or related subject—3 hours.

Final—(One of the following Branches):

*Branch I.—Mathematics*

- (1) First Paper—3 hours.
- (2) Second Paper—3 hours.
- (3) Third Paper—3 hours.
- (4) Fourth Paper—3 hours.
- (5) Fifth Paper—3 hours.
- (6) Sixth Paper—3 hours.
- (7) Seventh Paper—3 hours.
- (8) Eighth Paper—3 hours.

*Branch II.—Philosophy*

- (1) General I. Logic and Theory of Knowledge  
—3 hours.
- (2) „ II. Outlines of Indian Philosophy—3 hours.
- (3) „ III. History of European Philosophy  
—3 hours.
- (4) „ IV. General Psychology—3 hours.
- (5) „ V. Contemporary Philosophy—3 hours.
- (6) „ VI. Essay—3 hours.
- (7) Special I.—3 hours.
- (8) „ II.—3 hours.

*Branch III.—History, Economics and Politics*

- (1) General I. Indian History—  
2 Consecutive Periods—3 hours.
- (2) „ II. History of Europe (from 1500 to  
1919 A.D.)—3 hours.
- (3) „ III. Economics—3 hours.
- (4) „ IV. Politics—3 hours.
- (5) Special I.—3 hours.
- (6) „ II.—3 hours.
- (7) „ III.—3 hours.
- (8) Essay—3 hours.

*Branch IV.—Telugu Language and Literature*

- (1) Poetry and Drama—3 hours.
- (2) Prose and History of Language or Literature  
—3 hours.
- (3) Telugu Grammar, Prosody and Poetics—3 hours.
- (4) Elementary Sanskrit and Elementary Prakrit  
Grammar—3 hours.
- (5) Essay—3 hours.
- (6) Special I.—3 hours.
- (7) „ II.—3 hours.
- (8) „ III.—3 hours.

(c) Marks qualifying for a pass in—

- (i) each subject under Preliminary and Final: 40 per cent. ;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; third class 40 per cent. and above.

### ***V. B.Com. Degree Examination (Old Regulations):***

(a) Duration: Two years.

(b) Courses and Papers—

#### **PART I.—**

(1) Commercial Correspondence and Preciſ-writing  
—3 hours.

(2) Translation (Hindi)—2½ hours.

#### **PART II (A).—**

Commercial Knowledge and Commercial Arithmetic  
—3 hours.

Commercial Geography—3 hours.

Book-keeping and Accounts—3 hours.

Law and Practice of Banking in India—3 hours.

#### **PART II (B).—**

Business Organization—3 hours.

Economics—3 hours.

Mercantile and Industrial Law—3 hours.

Special Subject—Paper I—3 hours.

Special Subject—Paper II—3 hours.

(c) Marks qualifying for a pass in—

#### **PART I.—**

not less than 35 per cent. of the total marks in each of the subjects;

#### **PARTS II (A) AND II (B).—**

(i) not less than 35 per cent. of the total marks in the subjects comprising Part II-A and Part II-B respectively and not less than 30 per cent. in each of the subjects included therein;

(ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class 35 per cent. and above.

### ***VI. B.Com. Degree Examination (New Regulations):***

(a) Duration—Two years.

(b) Courses and Papers—

#### **PART I.—English.**

(1) English Composition—3 hours.

(2) English Modern Prose and Poetry—3 hours.

(3) Commercial Correspondence and Preciſ-writing  
—3 hours.



**PART II.—Hindi.**

Prescribed Text-books on Prose, Composition and Translation—3 hours.

**PART III.—Subjects.***Group (A)—*

Economics including Money, Exchange and Banking —3 hours.

Accountancy—3 hours.

Business Organization—3 hours.

Mercantile Law—3 hours.

Commercial Geography—3 hours.

*Group (B)—*

Special Subject—Paper I —3 hours.

Special Subject—Paper II—3 hours.

**(c) Marks qualifying for a pass in—****PART I.—**

not less than 30 per cent. of the marks in (a) and (b) combined (*i.e.*, General English) and 30 per cent. in Commercial Correspondence and Precis-writing and not less than 35 per cent. of the total number of marks.

**PART II.—**

not less than 35 per cent. of the total number of marks.

**PART III.—**

(i) not less than 30 per cent. of the marks in each of the subjects under Groups (A) and (B) and 35 per cent. of the total number of marks;

(ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class 35 per cent. and above.

**VII. B.Com. (Hons.) Degree Examination**

(Old Regulations):

(a) Duration: Three years.

(b) Courses and Papers—

**PART I.—Preliminary.**

(1) Commercial Correspondence and Precis-writing—  
3 hours.

(2) Translation (Hindi)—2½ hours.

**PART II.—Final.****PART II(A).—**

Commercial Knowledge and Commercial Arithmetic  
— 3 hours.

Commercial Geography—3 hours.

Business Organization—3 hours.

Law and Practice of Banking in India—3 hours.

**PART II (B).—**

- Economics—3 hours.
- Book-keeping and Accountancy—3 hours.
- Mercantile and Industrial Law—3 hours.
- Statistical Method and Applied Statistics—3 hours.
- Special Subject I—Paper I—3 hours.
- Special Subject I—Paper II—3 hours.
- Special Subject I—Paper III—3 hours.
- Special Subject II—Paper I—3 hours.
- Special Subject II—Paper II—3 hours.
- Special Subject II—Paper III—3 hours.

**(c) Marks qualifying for a pass in --**

- (i) each subject under Part I: 40 per cent.; Part II-A: 30 per cent. in each subject and 40 per cent. in the aggregate;  
Part II-B: 33 per cent. in both the special subjects taken together; 30 per cent. in each of the remaining subjects; and 40 per cent. in the aggregate;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class 40 per cent. and above.

**VIII. B.Com. (Hons.) Degree Examination**

**(New Regulations):**

**(a) Duration: Three years.**

**(b) Courses and Papers—**

**PART I—Preliminary Examination (at the end of the first year).**

- (1) English Composition—3 hours.
- (2) English Modern Prose—3 hours.
- (3) Translation (Hindi)—3 hours.

**PART II.—Final Examination.**

**Group A—**

- General Economics—3 hours.
- Banking—3 hours.
- Accountancy—3 hours.
- Business Organization—3 hours.
- Secretarial Practice—3 hours.
- Commercial Geography—3 hours.
- Mercantile Law—3 hours.
- Statistics and their Application to Commerce—3 hours.

**Group B—Optional Subjects.—**

- Special Subject—Paper I—3 hours.
- Special Subject—Paper II—3 hours.

(c) Marks qualifying for a pass in--

**PART I.—**

not less than 35 per cent. in each of the subjects (*i.e.*, English and Translation).

**PART II.—**

- (i) not less than 30 per cent. in each subject of Group A (*i.e.*, compulsory subjects) and 33 per cent. in the special subject from Group B and 40 per cent. in the aggregate;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above and third class 40 per cent. and above.

**IX. B.Sc. Degree Examination:**

(a) Duration: Two years.

(b) Courses and Papers—

**PART I.—English—3 hours.**

**PART II.—Mathematics Main.—**

- (1) Algebra and Trigonometry—3 hours.
- (2) Pure Geometry—3 hours.
- (3) Analytical Geometry—3 hours.
- (4) Calculus—3 hours.
- (5) Statics and Dynamics—3 hours.
- (6) Hydrostatics and Astronomy—3 hours.

**Physics Main.—**

- (1) Dynamics and Hydrostatics—3 hours.
- (2) Properties of Matter and Heat—3 hours.
- (3) Light and Sound—3 hours.
- (4) Electricity and Magnetism—3 hours.

Two Practicals.

Laboratory Record Note-books.

**Chemistry Main.—**

- (1) General Chemistry including History of Chemistry—3 hours.
- (2) Inorganic Chemistry—3 hours.
- (3) Physical Chemistry—3 hours.
- (4) Organic Chemistry—3 hours.

Two Practicals.

Laboratory Record Note-books.

**Botany, Zoology or Geology Main.—**

- (1) First Paper—3 hours.
- (2) Second Paper—3 hours.
- (3) Third Paper—3 hours.

- Botany—Three Practicals.  
     Laboratory Record.  
     Field-notes and Collection of Plants.  
 Zoology—Three Practicals.  
     Laboratory Record.  
 Geology—Three Practicals.  
     Laboratory and Field Records.

*Physiology Main.*—

- (1) First Paper—3 hours.
- (2) Second Paper—3 hours.  
     Three Practicals.

*Mathematics Subsidiary.*—

- (1) Algebra, Trigonometry and Analytical Geometry—  
     3 hours.
- (2) Calculus and Differential Equations—3 hours.

*Physics Subsidiary.*—

- (1) Physics (Written)—3 hours.  
     One Practical.

*Chemistry Subsidiary.*—

- (1) Chemistry (Written)—3 hours.  
     One Practical.

*Botany Subsidiary.*—

- (1) First Paper—2½ hours.
- (2) Second Paper—2½ hours.  
     One Practical.

*Zoology Subsidiary.*—

- (1) Invertebrata—2½ hours.
- (2) Vertebrata—2½ hours.  
     One Practical.

*Geology Subsidiary.*—

- (1) First Paper—2½ hours.
- (2) Second Paper—2½ hours.  
     One Practical.

*Physiology Subsidiary.*—

- (1) Physiology—3 hours.  
     Two Practicals.

(c) Marks qualifying for a pass in—

- (i) each subject under Parts I and II: 35 per cent.;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class 35 per cent. and above.

**X. B.Sc. Honours Degree Examination:****A. With Physics or Chemistry as Main Subject.—**

(a) Duration: Three years.

(b) Courses and Papers—

**PART I.—**

(1) English—3 hours.

(2) Translation—2 hours.

**PART II.—Physics Main.—**

(1) Properties of Matter and Dynamic Theory of Sound—3 hours.

(2) Sound and Heat—3 hours.

(3) Light—3 hours.

(4) Electricity and Magnetism—3 hours.

(5) Modern Physics I—3 hours.

(6) Modern Physics II—3 hours.

Four Practicals each of 3 hours.

Practical Record.

**Chemistry Main.—**

(1) General and Historical Chemistry—3 hours.

(2) Physical Chemistry—3 hours.

(3) Inorganic Chemistry—3 hours.

(4) Organic Chemistry—3 hours.

(5) Special Subject—3 hours.

Four Practicals.

Practical Record.

**Physics Subsidiary to Chemistry Main.—**

Physics Theory—3 hours.

Physics Practical.

**Chemistry Subsidiary to Physics Main.—**

Chemistry Theory—3 hours.

Chemistry Practical.

**Mathematics Subsidiary for Physics Main.—**

Algebra, Trigonometry and Analytical Geometry—3 hours.

Calculus and Differential Equations—3 hours.

**Mathematics Subsidiary for Chemistry Main.—**

Mathematics—3 hours.

(c) Qualifying marks.—

not less than 40 per cent. in each of the papers on English and Translation under Part I.

not less than 40 per cent. of the total marks in the main subject and 40 per cent. of the total marks in each of the subsidiary subjects under Part II, with not less than 33 per cent. of the total marks in each of the two divisions of the main subject.

Class determined by the total marks in the Main subject:

The *first* consisting of those who obtain not less than 60 per cent.; the *second* of those who obtain not less than 50 per cent.; and the *third* of those who obtain not less than 40 per cent. of the total marks.

*B. With Chemical Technology as Main Subject.—*

(a) Duration: Three years.

(b) Courses and Papers—

The Courses shall comprise instruction in—

PART I.—(a) Mathematics, (b) Physics, (c) Chemistry, and (d) Descriptive Engineering including Machine Drawing and Workshop Practice.

PART II.—Chemical Technology, Chemical Engineering, and any one of the following special subjects for the study of which provision may be made by the University:—

- (i) Sugar;
- (ii) Pharmaceuticals and Fine Chemicals;
- (iii) Oils and Fats (including essential oils); and
- (iv) Ceramics.

The examinations in the several subjects in Parts I and II shall be as detailed below:—

PART I

*Mathematics.*—There shall be one paper of three hours' duration, carrying 100 marks.

This paper shall be common with Mathematics Subsidiary to Chemistry Main B.Sc. (HONS.).

*Physics.*—There shall be two papers, one written of three hours' duration and one practical of three hours' duration. Each paper shall carry 100 marks.

*Chemistry.*—There shall be three papers in theory and three Practicals, one each in Inorganic Chemistry, Physical Chemistry and Organic Chemistry, respectively. Each paper in theory shall be of three hours' duration and shall carry 100 marks. Each practical examination shall be of six hours' duration. Besides the above, there shall be an oral examination. The

marks for the practical and oral examinations shall be allotted as below:—

	Marks
Inorganic and Physical Chemistry ..	200
Organic Chemistry ..	100
Practical Records ..	50
Oral ..	50

*Descriptive Engineering.*—There shall be one paper in theory carrying 100 marks and one in practical (workshop practice) each of three hours' duration. The practical examination shall carry 50 marks and drawing records 50 marks.

## PART II

*General Chemical Technology.*—There shall be two papers in theory of three hours' duration each and two practical examinations of 6½ hours' duration each. Each paper shall carry 100 marks and the records 50 marks.

*Chemical Engineering.*—There shall be one paper in theory of three hours' duration and one practical of 6½ hours' duration. Each paper shall carry 100 marks and the records 50 marks.

*Special Subject.*—There shall be one paper in theory of three hours' duration and one practical examination of 6½ hours' duration. Each paper shall carry 100 marks and the records 50 marks.

(c) Marks qualifying for a pass in—

- (i) each subject under Parts I and II: 40 per cent.;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; and third class 40 per cent. and above.

C. *With Botany or Zoology or Geology as Main Subject.*—

(a) Duration: Three years.

(b) Courses and papers—

PART I—(a) English and (b) a simple course in French or German.

PART II—Any one of the following branches of knowledge:

- (i) Botany as the Main subject with Chemistry or Zoology or Geology as Subsidiary subject;
- (ii) Zoology as the Main subject with Chemistry or Botany or Geology as Subsidiary subject;
- (iii) Geology as the Main subject with Physics or Chemistry or Zoology or Botany as Subsidiary subject.

The courses of study in the Main and the Subsidiary subjects under Part II:—

*Botany (Main).*—A candidate shall be required to have a sound knowledge, experimental and theoretical, of—

- (1) Morphology and Taxonomy of (a) Thallophytes, (b) Bryophytes, (c) Pteridophytes, (d) Gymnosperms and (e) Angiosperms.
- (2) Ecological and Geographical distribution of Phanerogams with special reference to South India.
- (3) Fungi, specially with reference to their economic importance.
- (4) Plant Physiology.
- (5) Plant Histology.
- (6) Physiological Anatomy.
- (7) Palæobotany.
- (8) Cytology and Genetics.
- (9) Principles of Evolution and Heredity.
- (10) The Chief Economic Plant Products.

Each candidate shall be required to present as a special subject a topic chosen from one of the sections mentioned above.

A candidate, during the three years' course of study, shall put in at least six weeks of field work for studying the various representative floristic regions of South India.

There shall be five papers in theory, each of three hours' duration on each of the following five subjects:—

- (1) Algae Fungi and Bryophytes.
- (2) Pteridophytes, Gymnosperms and Morphology of Angiosperms.
- (3) Histology, Physiology, Ecology and Distribution.
- (4) Systematic Botany, Economic Botany and General Principles.
- (5) Special subject.

Each paper shall carry 150 marks. There shall be four papers in practical, each of three hours' duration. The practical examination may include (1) the identification of Indian plants with the help of a flora or any other books allowed by the examiners; (2) the preparation and correct interpretation of microscopic sections of plant; (3) the examination of a diseased or abnormal plant and (4) practical physiology and *viva voce* questions.

Each candidate shall submit a collection of named flowering plants, collected and preserved by himself. There may be also plants of any of other main divisions of the vegetable kingdom. The record shall be countersigned by the Professor or Professors under whom the candidate has worked and shall be certified as



a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

*Zoology (Main).*—A candidate shall be required to have a sound knowledge, experimental and theoretical, of—

- (1) Invertebrata, including Invertebrate Embryology.
- (2) Chordata including Vertebrate Embryology.
- (3) Minor groups, Palæontology and South Indian Fauna.
- (4) Genetics, Cytology and General principles.
- (5) Any one of the following special subjects:
  - (i) General and Comparative Physiology.
  - (ii) General Entomology.
  - (iii) Parasitology.
  - (iv) Marine Ecology.
  - (v) Agricultural Zoology.
  - (vi) Forest Zoology.
  - (vii) Genetics in relation to Animal Breeding.

There shall be five papers in theory, each of three hours' duration on each of the above five subjects. Each paper shall carry 150 marks. There shall be four papers in practical, each of three hours' duration and one of the practicals may include questions bearing on the special subject. The practical examination in each subject shall carry 100 marks and the practical record submitted shall carry 100 marks.

Candidates may also be examined by *viva voce* and this may form part of any one of the four practicals.

Each candidate shall submit his laboratory note books containing the record of his practical work; also preparation of serial sections (not less than 24 slides) made during the period of study for the examination. The record shall be countersigned by the Professor or Professors under whom the candidate has worked and shall be certified as a *bona fide* record of work performed by the candidate. It shall be submitted on the first day of the practical examination to the examiners engaged in conducting the examination.

The scope of the several subjects shall be as defined in the syllabus.

*Geology (Main).*—A candidate shall be required to have a Subsidiary subject for the B.Sc. (Pass) Degree examination.

- (1) General Geology—Physical, Dynamical and Structural Geology.
- (2) Crystallography and Mineralogy.
- (3) Petrology.
- (4) Indian Geology, Stratigraphy and Palæontology.
- (5) Economic Geology with special reference to India (Special subject).

• There shall be five papers in theory, each of three hours' duration on each of the above five subjects. Each paper shall carry 150 marks. There shall be four papers in practical, each of three hours' duration on all the above subjects. Each practical examination shall carry 100 marks and the Field and Laboratory Record and *viva voce* shall carry 100 marks.

Each candidate shall submit his Field and Laboratory note books containing the record of his practical work performed during the period of study for the examination. The records shall be countersigned by the Professor or Professors under whom the candidate has worked and shall be certified as a *bona fide* record of work performed by the candidate. They shall be submitted on the first day of the practical examination to the Examiners engaged in conducting the examination.

The scope of the several subjects shall be as defined in the syllabus.

*Physics (Subsidiary).*—There shall be one paper in theory and one in practical, each of three hours' duration. Each paper shall carry 100 marks. The examination and syllabus shall be the same as that for the candidates taking the course in Physics as a Subsidiary subject for the B.Sc. (Pass) Degree examination.

*Chemistry (Subsidiary).*—There shall be one paper in theory and one in practical, each of three hours' duration. Each paper shall carry 100 marks.

The examination and syllabus shall be the same as that prescribed for the candidates taking the course in Chemistry as a Subsidiary subject for the B.Sc. (Pass) Degree examination.

*Botany (Subsidiary).*—There shall be two papers in theory carrying 50 marks each and one practical paper carrying 100 marks. The written papers shall be of two and a half hours' duration each and the practical paper of three hours' duration.

The examination and syllabus shall be the same as that for the candidates taking the course in Botany as a Subsidiary subject for the B.Sc. (Pass) Degree examination.

*Zoology (Subsidiary).*—There shall be two papers in theory carrying 50 marks each and one practical paper carrying 100 marks. The written papers shall be of two and a half hours' duration each and the practical paper of three hours' duration.

The examination and syllabus shall be the same as that prescribed for the candidates taking the course in Zoology as a Subsidiary subject for the B.Sc. (Pass) Degree Examination.

*Geology (Subsidiary).*—There shall be two papers in theory carrying 50 marks each and one practical paper carrying 100 marks. The written papers shall be of two and a half hours' duration each and the practical paper of three hours' duration.

The examination and syllabus shall be the same as that prescribed for the candidates taking the course in Geology as a Subsidiary subject for the B.Sc. (Pass) Degree examination.

(c) Marks qualifying for a pass:

A candidate shall be declared to have passed the Part I examination if he obtains not less than 40 per cent. in each of the papers in English and Translation. All other candidates shall be deemed to have failed in the examination. Successful candidates obtaining not less than 60 per cent. shall be declared to have passed with distinction in that subject.

A candidate shall be declared to have passed the B.Sc. (Honours) Degree examination if he has obtained not less than 40 per cent. of the total marks in the Main subject and 40 per cent. of the total marks in the Subsidiary subject under Part II, provided, however, no candidate shall be deemed to have passed in the Main subject under Part II unless he gets not less than 33 per cent. of the total marks in each of the two divisions of the Main subject, *viz.*, (i) Theory of the Main subject, (ii) Practicals of the Main subject, including the practical records submitted and *viva voce*.

(d) Classification of successful candidates:

Candidates obtaining Honours shall be ranked in the order of proficiency as determined by the total marks obtained by each in the Main subject and shall be arranged in three classes:

The First consisting of those who obtain not less than 60 per cent; the Second of those who obtain not less than 50 per cent; and the Third of those who obtain not less than 40 per cent. of the total marks.

## **XI. Post-Graduate and Research Degrees:**

(a) *Master of Arts (M.A.)*:

1. A candidate who has qualified for the B.A. (Hons.) Degree of the University by passing the prescribed examination under the Regulations may, without further examination but upon payment of the prescribed fee, proceed to take the M.A. Degree of the University at any Convocation subsequent to his taking the B.A. (Hons.) Degree.

(b) *Degree of Doctor of Philosophy (Ph.D.)*:

2. The degree of Doctor of Philosophy (Ph.D.) is conferred on persons who have passed the B.A. (Hons.) Degree examination of the University or an examination of any other University recognized as equivalent to the above, and who have satisfied the conditions laid down in the following paragraphs.

3. All candidates for the degree of (Ph.D.) are required to pursue in the University for at least three academic years—

the period shall be four academic years in the case of a third class Honours Graduate—an approved full-time course of research under the direction of the Head of the Department concerned or of a member of the University Staff appointed by the Vice-Chancellor on his recommendation:

Provided that, after completion of the first year of the course, a candidate may be permitted to devote such periods as may be deemed advisable by the Vice-Chancellor to full-time research in other approved Universities or institutions, or at a place and under conditions approved by the University, while remaining under the direction of the University or of persons nominated by the University.

It shall be competent for the Vice-Chancellor to reduce the period by one year on the recommendation of the Director of Studies in the case of those who have some research work to their credit and who are teachers of the University or are members of the teaching staff in any of the colleges affiliated to the Andhra University or a recognized University for the preceding five years.

4. Before entering on the course of research, candidates are required:—

(a) to submit to the Vice-Chancellor for his approval through the Head of the Department, the general line of research proposed to be undertaken by them;

(b) to register as students of the University and to pay the prescribed tuition fees.

5. Each candidate shall submit through the Director of his studies and the Head of the Department concerned, not less than 3 terms in advance of the date of the examination, the subject of his research.

6. On completing the course of research candidates are required to present a thesis on the subject of their research and to satisfy the examiners that it contains original work worthy of publication.

7. Every candidate shall state in his application the special subject within the purview of the Regulations for the B.A. (HONS.) degree of the University upon a knowledge of which he rests his qualification for the Doctorate and shall, with the application, transmit three copies, printed or typewritten, of a thesis on some special portion of the subject so stated, embodying the result of research or showing evidence of his own work, whether based on the discovery of new facts observed by himself, or of new relation of facts observed by others, whether constituting an exhaustive study and criticism of the published work of others or otherwise forming a valuable contribution to the literature of the subject dealt with or tending

generally to the advancement of knowledge. The applicant, in submitting a thesis, shall state generally in a preface and specifically in notes, the sources from which his information is derived, the extent to which he has availed himself of the work of others and the portions of his thesis which he claims as his original. He shall also be required to declare that the thesis submitted is not substantially the same as the one which has already been submitted to any other University.

A candidate who has passed the B.A. (HONS.) or an examination recognized as equivalent thereto in the third class shall be required to pass a written examination consisting of three papers of the Honours Degree Examination at the end of the first year of his research in such subjects as the Director of Studies may prescribe. No one who does not obtain at least 50 per cent. of the marks prescribed for these shall be permitted to continue for the PH.D. course.

8. The candidate may also forward, with his application, three printed copies of any original contribution or contributions to the advancement of the special subject professed by him or of any cognate subject, which may have been published by him independently or conjointly and upon which he relies in support of his candidature.

9. The thesis and the original contributions shall be referred by the Syndicate to a Board of three examiners ordinarily drawn from outside India.

10. The Board shall report to the Syndicate the result of the examination of the thesis and if the Syndicate, upon the report, considers the candidate worthy of the Doctorate Degree, it shall declare that the candidate shall be awarded the degree and cause his name to be published with the subject of his thesis and the titles of his published contribution if any, to the advancement of knowledge.

11. If the Examiners do not approve of the thesis once submitted, the candidate may with the previous approval of the Syndicate, submit after an interval of not less than six months a revised thesis.

(c) *Degree of Master of Science (M.Sc.) :*

12. The Degree of Master of Science (M.Sc.) is conferred on persons who have passed the B.Sc. (HONS.) Degree examination or B.A. (HONS.) Degree examination with Mathematics of the University or an examination of any other University, recognized as equivalent to the above, and who have satisfied the conditions laid down in the following paragraphs :

13. All candidates for the degree of M.Sc. are required to pursue in the University for at least one academic year, the

period being two academic years, in the case of a third class Honours or first and second class B.Sc. Pass-Graduates, an approved full-time course of advanced study and research under the direction of the Head of the Department concerned or of a member of the University Staff appointed by the Vice-Chancellor on his recommendation.

14. Before entering on the course of research, candidates are required—

(a) to submit to the Vice-Chancellor for his approval, through the Head of the Department and the Principal, the general line of research proposed to be undertaken by them, and

(b) to register as students of the University and to pay the prescribed tuition fee.

They shall submit to the University through the Director of their Studies and the Head of the Department the subject of their research not later than 1st October preceding the date of the Examination.

15. On completing the course of research every candidate for the degree of Master of Science shall—

(a) submit three copies of a thesis, printed or type-written embodying the results of the research carried out by him together with the report of the person who supervised his work. He shall state, in a preface to the thesis, the sources from which he has derived information or guidance for his work, the extent to which he has availed himself of the work of others and the portions of the thesis which he claims as original. The thesis should give clear indication of the candidate's ability to conduct research under direction and some knowledge of the technique involved;

(b) appear for a written examination of 3 hours' duration in the special branch to which the subject of research belongs;

(c) submit a record of the practical work done as a preliminary to the research work:

Provided that candidates whose subject of research relates to Mathematical Physics shall take a second paper of 3 hours' duration in lieu of the practical record; and

(d) undergo a *viva voce* test at the discretion of the Examiners.

A candidate who has passed the B.Sc. Honours examination or an examination recognized as equivalent thereto in the third class or the B.Sc. Pass examination in the first and second class shall be required in addition, at the end of the first year of research, to appear for the following examination:—

A candidate who has passed the B.Sc. (Pass) Degree examination in the first or the second class shall be required to

undergo the prescribed course in theory and practice along with the B.Sc. (HONS.) students before he is allowed to sit for the examination at the end of the first year.

(In the case of Physics candidates, two papers on Modern Physics and in the case of Chemistry candidates, one paper in the appropriate subject of the Honours examination.)

Practical examination (all those prescribed for Honours in the case of Physics and the general subjects in the case of Chemistry), and secure at least 50 per cent. of the marks prescribed in the theory and written examinations respectively.

16. The Syndicate shall refer the thesis, practical record and the written paper to a Board of two examiners for report and valuation. The practical record and the written paper shall carry 100 marks each and no candidate shall be qualified to receive the M.Sc. degree unless he obtains at least 50 per cent. of the total marks in the practical record and the written paper put together. On receipt of the marks in respect of the practical record and the written paper and the report on the thesis, the Syndicate shall decide whether the candidate may be awarded the degree.

17. (1) If the examiners do not approve of the thesis once submitted, and if the candidate secures at least 50 per cent. of the prescribed marks in the practical record and written paper put together, the candidate may re-submit the thesis after revision, taking into account the criticisms of the examiners, after an interval of not less than six months and not more than one year from the date of intimation of the non-approval of the thesis to the candidate.

(2) If the candidate fails to secure 50 per cent. of the prescribed marks at the first appearance and if the thesis has been approved, he may appear for the examination a second time after an interval of not less than six months from the date of the first appearance and submit a fresh record.

(3) If the candidate fails to secure 50 per cent. of the marks in practical and theory and if the thesis is rejected, he may appear for the whole examination a second time after an interval of not less than twelve months from the date of the first appearance.

(4) If the candidate is disqualified at the second appearance, he shall not be permitted to present himself again for the examination.

The Board of Examiners who will also set the paper for the written examination, shall consist of one external and one internal examiner. The internal examiner shall ordinarily be the Director of Studies. The valuation of the practical record and the written paper shall be independent whereas the report on the

thesis shall be a joint one. The Registrar shall, in consultation with the Principals of the University Colleges, indicate the scope of the examination to the Board of Examiners and the paper shall ordinarily be set so as to give a wide choice to the candidate.

(d) *Degree of Master of Science in Applied Physics:*

18. A candidate for the degree of Master of Science in Applied Physics shall be required:—

(a) to have passed the B.Sc. Pass or B.Sc. (Hons.) Degree Examination of this University with Physics as the main subject or an examination of any other University accepted by the Syndicate as equivalent thereto;

(b) to have undergone subsequently a further course of study in the University College, extending over a period of one academic year consisting of three consecutive terms in the case of Honours Graduates and two academic years each consisting of three consecutive terms in the case of Pass Graduates; and

(c) to have passed the prescribed examinations.

19. The course and scope of instructions shall be as defined in the syllabus prescribed.

20. The examination for the B.Sc. Pass Graduates at the end of first year shall consist of three papers in theory each of three hours' duration except in the case of Properties of Matter which shall be of two hours' duration. Besides, there shall be two papers in practical each of three hours' duration.

The theory papers shall be as follows and be common with the Physics Hons. Part II Main:—

	Hours	Marks
(1) Properties of Matter ..	2	60
(2) Light .. ..	3	100
(3) Electricity and Magnetism ..	3	100

The practical examinations will be conducted along with those for the Physics Hons. Part II main candidates and the practical examination carries 200 marks.

The candidates have to submit record of practical work done and the record shall carry 40 marks.

A candidate shall be declared to have passed the degree examination at the end of the first year if he obtains on the aggregate not less than 40 per cent. of the total marks and not less than 30 per cent. in each of the parts (a) written, and (b) practical including records.

21. The examinations at the end of the first year for Honours Graduates and at the end of the second year for Pass Graduates shall consist of three papers in theory, and three practicals each of three hours' duration one on each of the



subjects, *viz.*, (1) Applied Mechanics, (2) Optical Instruments, and (3) Applied Electricity. In addition there shall be an examination in Drawing. The marks shall be allotted as below :

Written	..	Three papers each carrying 100 marks	..	..	300
Practical	..	Three practicals each carrying 100 marks	..	..	300
Drawing	..	Do.	do.	..	100
Practical records	..	Do.	do.	..	100

22. A candidate shall be declared to have passed the M.Sc. Degree examination if he obtains on the aggregate not less than 40 per cent. of the total marks and not less than 35 per cent. in each of the parts (a) written, and (b) practical including Drawing and records.

23. Candidates declared to have passed the M.Sc. Degree examination shall be ranked in the order of proficiency as determined by the total number of marks obtained by each and shall be arranged in two classes:—

Class I—Those obtaining 60 per cent. and above.

Class II—The rest.

(e) *Degree of Master of Science in Chemical Technology (M.Sc.Chem.Tech.)* :

24. A candidate for the Degree of Master of Science in Technology shall be required—

(a) to have passed the B.Sc. (HONS.) Examination in the University with Chemical Technology as the main subject;

(b) to have undergone subsequently the prescribed course of study in the University for a period of one academic year; and

(c) to have passed the prescribed examination.

25. Each student for the Degree of Master of Science in Chemical Technology shall be required to undergo practical training for at least three months in an approved factory and under the direction of a competent person and shall submit through his Director at the factory report of the work done to the Head of the Department.

26. Select students who have taken the B.Sc. Pass Degree in Chemistry of this University or any other degree accepted by the Syndicate as equivalent thereto may be admitted for the M.Sc. Course in Chemical Technology. They shall undergo a prescribed course of training in Chemical Technology for two years before appearing for the examination and in addition undergo factory training in an approved works or factory for at least five months.

27. The examination shall be written, practical and oral.  
 28. The examination for the M.Sc. Degree in Chemical Technology shall be as below:—

	Marks
(1) Scientific German Translation (1½ hours paper)	50
(2) General Economics and Factory Management (2 hours paper)	50
(3) Special Subject in Chemical Technology—	
(a) 3 Written Examinations (3 hours each)	300
(b) 3 Practical Examinations (6½ hours each)	300
(4) Home Paper (work corresponding to the requirement of the Home Paper of the I—Chem. E. Examinations)	100
(5) Oral	100
(6) Records	100

The examination shall be held in June.

29. A candidate shall be declared to have passed the examination if he obtains not less than 40 per cent. of the total marks and not less than 35 per cent. in each (a) written, (b) practical including oral and records examinations.

30. Candidates declared to have passed the examination shall be ranked in the order of proficiency as determined by the total marks obtained by each and shall be arranged in two classes:—

Class I—those obtaining 60 per cent. and above.

Class II—the rest.

(f) *Degree of Master of Science in Chemistry with the Special Subject Chemistry (including Microscopy) of Foods, Drugs and Water:*

31. A candidate for the M.Sc. Degree in Chemistry with the special subject 'Chemistry (including Microscopy) of Foods, Drugs and Water' [M.Sc. Chemistry (special subject Foods, Drugs, and Water)] shall be required—

(a) to have passed the B.Sc. (HONS.) or the B.Sc. Pass degree examination (with Chemistry as the main subject) of this University or any other examination accepted by the Syndicate as equivalent thereto, and two other science subjects as subsidiary subjects;

(b) to have undergone subsequently a further course of study in the University College, extending over a period of one academic year consisting of three consecutive terms, provided however that the period shall be two academic years in the case of Pass Graduates; and

(c) to have passed the prescribed examination.

32. The course and scope of instruction shall be as defined in the syllabus prescribed.

33. The examination shall be written, practical and oral.

34. There shall be two papers in theory, each of three hours' duration, and three practicals of six and a half hours' duration each. Besides these, there shall be an oral examination. The marks shall be allotted as below:

Written examination: 2 papers each carrying 100 marks—  
200.

Practical examination: 3 papers each carrying 100 marks—  
300.

Oral and records—100.

35. A candidate shall be declared to have passed the examination if he obtains not less than 40 per cent. of the total marks and not less than 35 per cent. in each (a) written, (b) practical (including oral and records) examinations.

36. Candidates declared to have passed the examination shall be classed as below:—

Class I—Those obtaining 60 per cent. and above.

Class II—The rest.

When the names of successful candidates are published in the *Gazette* they shall be arranged in the order of merit according to the total number of marks obtained.

(g) *Degree of Doctor of Science (D.Sc.)*:

37. The degree of Doctor of Science (D.Sc.) is conferred on persons who have passed the Master of Science Degree examination or the M.B.B.S. Degree examination of the University or an examination of any other University, recognized as equivalent to the above and who have satisfied the conditions laid down in the following paragraphs:

38. All candidates for the degree of D.Sc. are required to pursue in the University for at least three academic years an approved full-time course of research under the direction of the Head of the Department concerned or of a member of the University Staff appointed by the Vice-Chancellor on his recommendation:

Provided that, after completion of the first year of the course a candidate may be permitted to devote such periods as may be deemed advisable by the Vice-Chancellor to full-time research in other approved Universities or institutions or at a place and under conditions approved by the University, while remaining under the direction of the University or of persons nominated by the University.

39. Before entering on the course of research, candidates are required—

(a) to submit to the Vice-Chancellor for his approval, through the Head of the Department and the Principal, the general line of research proposed to be undertaken by them;

(b) to register as students of the University and to pay the prescribed tuition fees,

Provided however that (i) candidates who submit their theses for the award of M.Sc. Degree of the Andhra University in June of any year may be provisionally registered in July of that year and in case they are awarded in due course the M.Sc. Degree on the first submission of their theses their registration shall be confirmed and that the prescribed period of research shall be calculated from the date of their provisional registration; and (ii) if the candidates thus provisionally registered fail to qualify for the M.Sc. Degree on the first submission of their theses, their registration shall be cancelled automatically and in case they are permitted to resubmit their theses after revision the prescribed period of research for the D.Sc. Degree shall be calculated only from the date of communication of having obtained the qualification for the M.Sc. Degree.

40. Each candidate shall submit, through the Director of his studies and the Head of the Department concerned, not less than three terms in advance of the date of the examination the subject of his research.

41. On completing the course of research, candidates are required to present a thesis on the subject of their research and to satisfy the examiners that it contains original work worthy of publication.

42. Every candidate shall state in his application the special subject within the purview of the Regulations for the Master of Science Degree or the M.B.B.S. Degree of the University upon a knowledge of which he rests his qualification for the Doctorate, and shall, with the application, transmit three copies printed or typewritten, of a thesis on some special portion of the subject so stated embodying the result of research or showing evidence of his own work, whether based on the discovery of new facts observed by himself, or of new relation of facts observed by others, whether constituting an exhaustive study and criticism of the published work of others or otherwise forming a valuable contribution to the literature of the subject dealt with, or tending generally to the advancement of knowledge. The applicant, in submitting a thesis, shall state generally in a preface and specifically in notes, the sources from which his information is derived, the extent to which he has availed himself of the work of others and the portions of his thesis which he claims as his original. He shall also be required to declare that thesis submitted is not substantially the same as one which has already been submitted to any other University.

43. The candidate may also forward, with his application, three printed copies of any original contribution or contributions to the advancement of the special subject professed by him or of any cognate subject, which may have been published by him independently or conjointly and upon which he relies in support of his candidature.

44. The thesis mentioned and the original contributions, if any, shall be referred by the Syndicate to a Board of three examiners ordinarily drawn from outside India.

45. The Board shall report to the Syndicate the result of the examination of the thesis and if the Syndicate, upon the report, considers the candidate worthy of the Doctorate Degree, it shall declare that the candidate shall be awarded the degree and cause his name to be published with the subject of his thesis and the titles of his published contributions, if any, to the advancement of knowledge.

46. If the Examiners do not approve of the thesis once submitted the candidate may with the previous approval of the Syndicate submit after an interval of not less than six months from the date of intimation of the non-approval of the thesis to the candidate a revised thesis.

47. Particulars regarding dates for submitting applications, etc., in respect of M.Sc. Degree examination by research will be found in Chapter XLVI of the *Andhra University Code*, Vol. II. Each candidate shall submit through the Director of Research and the Head of the Department to the Principal, University Colleges, three copies of his thesis and one copy of the practical record certified as *bona fide* by the Director of Research between the 15th and 30th of June or between the 15th and 30th of December.

Candidates for the Ph.D. and D.Sc. Degrees shall submit their thesis, after the prescribed period of research, to the Registrar so as to reach him between the 16th and 30th June or between 1st and 15th December each year.

A candidate for a research degree whose thesis is rejected on the first occasion may be permitted by the Syndicate to submit the same a second time after revision taking into account the criticisms made by the Examiners appointed in the first instance along with the prescribed fee, but he shall not be eligible to resubmit it on a subsequent occasion should it be rejected a second time.

#### TRANSITORY REGULATIONS

48. Notwithstanding anything contained above, candidates registered prior to 1st December 1937 for submitting thesis in respect of M.A. (Hons.), M.Sc. (Hons.) and M.A. and M.Sc.

Degree examinations in accordance with the Old Regulations shall be permitted to continue their work, submit their thesis and undergo the examination prescribed not later than the end of 1939.

49. Notwithstanding anything contained above, candidates registered prior to 1st December 1937, for submitting theses for the P.H.D. Degree Examination in accordance with the old Regulations shall be permitted to continue their work, submit their thesis and undergo the prescribed examination not later than the end of 1942.

50. Candidates registered by the Syndicate prior to 1st December 1937, for submitting thesis for the M.A. (Hons.) Degree examination may be permitted to appear for the P.H.D. Degree examination under the new Regulations subject to the following conditions:

That they shall satisfy all the conditions prescribed in the concerned Section mentioned above, provided, however, that the Syndicate may permit the period spent in research under a recognized Director since July 1937, to be counted in reckoning the period of research prescribed in Section 3 above.

Candidates desirous of availing themselves of this exemption shall apply through the Director of Studies to the Registrar so as to reach him not later than 1st July 1938.

51. Candidates registered by the Syndicate prior to 1st December 1937 as persons doing research with a view to appearing for the P.H.D. Degree examination (in the Faculties of Science and Medicine) under the Old Regulations may be permitted to appear for the D.Sc. Degree examination subject to the condition that they shall satisfy all the conditions prescribed in Sections 37 to 46, provided, however, that the Syndicate may permit the period already spent under approved directed research in the Jeypore Vikrama Deo College of Science and Technology or the Andhra Medical College, Vizagapatam, to be counted in reckoning the period of research prescribed in Section 38.

Candidates desirous of availing themselves of this exemption shall apply through the Director of Studies to the Registrar so as to reach him not later than 1st July 1938.

(h) *B.Ed. Degree Examination:*

(a) Duration: One year.

(b) Courses and papers—

• *Practical—*

(1) Lesson I.

(2) Lesson II.

*Written—*

- (3) Theory and Practice of Education—Part I—3 hours.
- (4) Do. Part II—3 hours.
- (5) History of Education—3 hours.
- (6) Methods appropriate to teaching—English—3 hours.
- (7) Do. Special subject—3 hours.

(c) Marks qualifying for a pass in—

- (i) items (1) and (2), (6) and (7)—40 per cent; rest 35 per cent.;
- (ii) first class 60 per cent. and above; second class 50 per cent and above; and third class rest.

**XII. M.Ed. Degree Examination:**

1. The degree of Master of Education may be conferred upon:—

- (1) persons who have passed the B.Ed. Degree examination of this University and who are of not less than two years' standing;
- (2) persons who are residents of or domiciled in the University area and who have passed an examination accepted by the Syndicate as equivalent to the B.Ed. Degree examination of this University and who are of not less than two years' standing.

If any question arises as to whether a person coming under clause (2) above, is a resident of or domiciled in the University area or not, the question shall be decided by the Syndicate and its decision shall be final, provided that a candidate will not be considered as domiciled unless he has lived continuously within the University area for a period of not less than 2 years immediately preceding the date of submission of the thesis.

2. The M.Ed. Degree shall only be awarded to candidates who have submitted as a thesis work forming a distinct contribution to the advancement of learning. Each candidate shall state in his application the subject or subjects within the purview of the Regulations for the Degree of Bachelor of Education upon a special knowledge of which he rests his application for M.Ed. Degree and shall with the application transmit three copies, printed or typewritten, of the thesis.

The application and the thesis should be forwarded so as to reach the Registrar between 1st June and 1st July of any year.

3. The thesis must comply with the following conditions:

- (1) it must be satisfactory in respect of literary presentation as well as in other respects and should be in a form suitable for publication;

- (2) the candidate shall indicate generally in his preface to his thesis and specially in notes, the sources from which his information is taken, the extent to which he has availed himself of the work of others and the portions of the thesis which he claims as his original work;
- (3) he shall further state whether his research has been conducted independently, under advice or in co-operation and in what respects his investigations or researches appear to him to tend to the advancement of learning.
4. The thesis shall be referred to three independent judges appointed by the Syndicate who shall examine the thesis, who may examine the candidate orally if they so desire and who shall report individually whether the candidate's work is of sufficient merit to deserve the degree.

If the Syndicate, upon the independent reports of the judges, consider the candidate worthy of the Degree of Master of Education it shall cause his name to be published with the subject of his thesis.

5. Every candidate shall be at liberty to publish his thesis. The thesis of any successful candidate may be published by the University with the inscription—"Thesis approved for the Degree of Master of Education in the Andhra University."

### **XIII. Medical Examinations:**

(a) Duration: Five and a half years.

(b) Courses and Papers—

(1) *Pre-Registration Examination.*—

- (1) Inorganic Chemistry—1 written, 1 practical, 1 oral.
- (2) Physics—1 written, 1 practical, 1 oral.
- (3) General Biology—1 written, 1 practical, 1 oral.

(2) *First M.B.B.S. Examination.*—

- (1) Organic Chemistry—1 written, 1 practical, 1 oral.
- (2) Anatomy—1 written, 1 dissection, 1 oral.
- (3) Physiology—1 written, 1 practical, 1 oral.

(3) *Second M.B.B.S. Examination.*—

- (1) Pharmacology—1 written, 1 practical, 1 oral.
- (2) Hygiene—1 written, 1 practical, 1 oral.
- (3) Forensic Medicine—1 written, 1 oral.

(4) *Final M.B.B.S. Examination.*—

- (1) Medicine—2 written, 1 practical, 1 oral, 2 clinical.
- (2) Surgery—2 written, 1 operative, 1 oral, 2 clinical.
- (3) Obstetrics and Gynæcology—1 written, 1 practical, 1 oral, 1 clinical.



(4) Ophthalmology—1 written, 1 practical, 1 oral, 1 clinical.

(5) Pathology and Bacteriology—1 written, 1 practical, 1 oral.

(5) *Degree of Doctor of Medicine.*—

1. (a) No candidate shall be admitted to the examination for the Degree of Doctor of Medicine unless he produces a certificate showing that:—

- (1) having passed the M.B. & B.S. Degree examination of this University, he has been engaged for three years continuously in the practice of the medical profession; or
- (2) after qualifying for the M.B. & B.S. Degree, he has passed two years in hospital practice; or
- (3) having passed the M.B. & B.S. Degree examination in the first class, he has passed one year in hospital practice.

(b) Each candidate must also produce a testimonial, signed by at least two Doctors of Medicine, two members of any of the Royal College of Physicians, or two Masters of Surgery, or two Fellows of any of the Royal College of Surgeons, or two members of the Senate of the Andhra University, certifying that he is in habits and character a fit and proper person to receive the degree of Doctor of Medicine.

Provided however that as a temporary measure and for a period of five years from the date of passing this regulation an L.M.S. degree holder of the Andhra University may be permitted to appear for the M.D. Degree Examination of the University on the following conditions:—

- (i) That the candidate produces satisfactory evidence of having been regularly engaged in the practice of medicine for a period of not less than five years subsequent to obtaining the L.M.S. Degree;
- (ii) That the candidate produces satisfactory evidence of having taken an approved course or courses or of having held a medical appointment at one or more of the hospitals attached to a college of Medicine recognized by or affiliated to this University for a period of not less than one year immediately preceding the date on which he has applied to be admitted to the Examination of the M.D. Degree;
- (iii) That the candidate produces a certificate signed by the President of the Faculty of Medicine or Chairman of the Board of Studies in Medicine and by the Medical Officer in charge of the hospital in which he has taken the course at which he has held

an appointment as approved in clause (ii) above, that the work in which he has been specially engaged in the said hospital is a suitable preparation for the particular branch of the M.D. Degree Examination for which he selects to appear.

2. Candidates shall be examined in one of the following branches:—

*Branch I.—Medicine including Tropical Medicine—*

- (a) Medicine—one paper; Tropical Medicine—one paper.
- (b) Pathology and Bacteriology—one paper.
- (c) An essay in one or two subjects in Medicine.
- (d) A clinical and oral examination, including an examination in Pathological Specimens.

*Branch II.—Pathology including Bacteriology—*

- (a) Pathology—two papers.
- (b) Medicine including Tropical Diseases—one paper.
- (c) An essay in one or two subjects in Pathology.
- (d) A practical and oral examination including the examination of Pathological specimens.

3. A candidate who has passed the examination in one branch may appear, on a subsequent occasion, in another branch, but no candidate may appear for the examination in two branches in the same year.

4. Candidates shall be approved by the examiners and shall be declared to have passed if they have shown a competent knowledge in all the subjects of the examination. All other candidates shall be deemed to have failed in the examination.

.(6) *Degree of Master of Surgery.—*

5. (a) No candidate shall be admitted to the examination for the degree of Master of Surgery unless he produces a certificate showing that—

- (1) having passed the M.B. & B.S. Degree examination of this University, he has been engaged for three years continuously in the practice of medical profession; *or*
- (2) after qualifying for the M.B. & B.S. Degree examination he has passed two years in hospital practice; *or*
- (3) having passed the M.B. & B.S. Degree examination in the first class, he has passed one year in hospital practice;

(b) Each candidate must also produce a testimonial signed by at least two Doctors of Medicine, or two members of any of the Royal College of Physicians, or two Masters of Surgery, or two Fellows of any of the Royal College of

Surgeons, or two members of the Senate of the Andhra University, certifying that he is in habits and character a fit and proper person to receive the degree of Master of Surgery.

Provided however that as a temporary measure and for a period of five years from the date of passing this regulation an L.M.S. Degree holder of the Andhra University may be permitted to appear for the M.S. Degree examination of the University on the following conditions:—

- (i) That the candidate produces satisfactory evidence of having been regularly engaged in the practice of medicine for a period of not less than five years subsequent to obtaining the L.M.S. Degree;
  - (ii) That the candidate produces satisfactory evidence of having taken an approved course or courses or of having held a surgical appointment at one or more of the hospitals attached to a College of Medicine recognised by or affiliated to this University for a period not less than one year immediately, preceding the date on which he applied to be admitted to the examination of the M.S. Degree;
  - (iii) That the candidate produces a certificate signed by the President of the Faculty of Medicine or Chairman of the Board of Studies in Medicine and by the Medical Officer in charge of the hospital in which he has taken the course at which he has held an appointment as approved in clause (ii) above, that the work in which he had been specially engaged in the said hospital is a suitable preparation for the particular subject of the M.S. Degree examination for which he selects to appear.
6. Candidates shall be examined in—
- (1) Surgery—one paper.
  - (2) Surgical Anatomy and Pathology—one paper.
  - (3) One of the following special subjects—one paper—
    - (i) Ophthalmology.
    - (ii) Venereal and Genito-Urinary Surgery.
    - (iii) Aural and Laryngeal Surgery.
  - (5) Operative Surgery and the use of instruments.
  - (6) A clinical and oral examination including the examination of Pathological Specimens.
7. Candidates shall be approved by the examiners and shall be declared to have passed, if they have shown a competent knowledge in all the subjects of the examination. All other candidates shall be deemed to have failed in the examination.

**NOTE.**—The graduates of other Universities, who hold degrees considered by the Andhra University as equivalent to the M.B. & B.S. of the Andhra University, may be permitted by the Syndicate to appear for the M.D. or M.S. Degree of the Andhra University, if they satisfy the other Regulations.

**XIV. Oriental Title Examinations:**

(a) Duration: Four years.

(b) Courses and Papers—

(1) *Vidya Praveena*:

*Preliminary Examination.*—

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|-----|--|
| (1) | Prescribed Text-Books—General I—3 hours. |
| (2) | Do. General II—3 hours.                  |
| (3) | Do. Special I—3 hours.                   |
| (4) | Do. Special II—3 hours.                  |

*Final Examination.*—

- |     |  |
|-----|--|
| (1) | History of Sanskrit Language & Literature—3 hours. |
| (2) | Prescribed Text-Books—Special I—3 hours.           |
| (3) | Do. Special II—3 hours.                            |
| (4) | Do. Special III—3 hours.                           |

(2) *Bhasha Praveena*:

*Admission Test Examination.*—

- |     |   |
|-----|---|
| (1) | Prescribed Sanskrit Text-Books & Grammar—3 hours. |
| (2) | Modern Indian Languages—First paper—3 hours.      |
| (3) | Do. Second paper—3 hours.                         |

*Preliminary Examination.*—

- |     |  |
|-----|--|
| (1) | Prescribed Text-Books in Modern Indian Languages<br>—I—3 hours.  |
| (2) | Prescribed Text-Books in Modern Indian Languages<br>—II—3 hours. |
| (3) | Vernacular Composition—Telugu—3 hours.                           |
| (4) | Sanskrit Text-Books—I—3 hours.                                   |
| (5) | Do. II—3 hours.  |

*Final Examination.*—

- |     |  |
|-----|--|
| (1) | Prescribed Text-Books in Modern Indian Languages<br>—I—3 hours.  |
| (2) | Prescribed Text-Books in Modern Indian Languages<br>—II—3 hours. |
| (3) | History of Language and Literature—3 hours.                      |
| (4) | Special Period of Literature—3 hours.                            |
| (5) | Sanskrit Text-Books—3 hours.                                     |

(3) *Certificate of Proficiency*:

1 Paper—3 hours.

(4) *Alim-i-Fazil*:

*Preliminary Examination.*—

- |     |                            |
|-----|----------------------------|
| (1) | Tafsir and Hadith—3 hours. |
| (2) | Fiqh, Aqalid—3 hours.      |
| (3) | Prose Text-Books—3 hours.  |

- (4) Poetry Text-Books—3 hours.
- (5) History—3 hours.
- (6) Translation from Arabic into Urdu and *vice versa*—3 hours.

*Final Examination.—*

- (1) Tafsir, Hadith and Ilmul Hadith—3 hours.
- (2) Fiqh and Usulul Fiqh—3 hours.
- (3) Prose Text-Books—3 hours.
- (4) Poetry Text-Books—3 hours.
- (5) History—3 hours.
- (6) Translation from Arabic into Urdu and *vice versa*—3 hours.
- (7) Mantiq and Balaghat—3 hours.
- (8) Composition in Arabic—3 hours.

(5) *Munshi-i-Kamil:*

*Preliminary Examination.—*

- (1) Persian Text-Books—3 hours.
- (2) Urdu Text-Books—3 hours.
- (3) Translation from Persian into Urdu—3 hours.
- (4) Translation from Urdu into Persian—3 hours.
- (5) Composition in Persian—3 hours.
- (6) Arabic Text-Books—3 hours.

*Final Examination.—*

- (1) Persian Text-Books—3 hours.
- (2) Urdu Text-Books—3 hours.
- (3) Translation from Persian into Urdu—3 hours.
- (4) Translation from Urdu into Persian—3 hours.
- (5) History of Persian Language & Literature—3 hours.
- (6) Arabic Text-Books—3 hours.
- (7) Composition in Persian—3 hours.

(c) Marks qualifying for a pass in—

- (i) Preliminary and Final Examinations: 40 per cent.;
- (ii) first class 60 per cent. and above; second class 50 per cent. and above; third class 40 per cent. and above.

### Table of Examination Fees

				Rs.
Matriculation Examination	..	..	..	15
Intermediate Examination—				
Whole Examination	..	..	..	28
Part I only	..	..	..	12
Part II only	..	..	..	10
Part III only	..	..	..	20

Rs.

Provided that no candidate shall pay more than Rs. 28 at a time whatever be the number of parts in which he appears.

**B.A. Degree Examination—**

Whole Examination	..	..	..	45
Part I	..	..	..	20
Part II	..	..	..	10
Part III	..	..	..	25

**B.A. (HONS.) Degree Examination—**

Preliminary (Whole)	..	..	..	15
Do. English only	..	..	..	10
Do. Translation or History only	..	..	..	10
Final	..	..	..	60
M.A. Degree	..	..	..	25
PH.D. Degree Examination	..	..	..	200
PH.D. for submission of revised Thesis	..	..	..	100

**B.COM. (Pass) Degree Examination—**

Part I	..	..	..	15
Part I (a) or Part I (b)	..	..	..	10
Part II	..	..	..	30
Part II (a)	..	..	..	20
Part II (b)	..	..	..	20

**B.COM. (Pass) Degree Examination—(under the Revised Regulations)—**

Whole Examination	..	..	..	45
Part I	..	..	..	20
Part II	..	..	..	10
Part III	..	..	..	25

**B.COM. (HONS.) Degree Examination—**

Part I (Preliminary Examination)	..	..	..	15
Part I (a) or Part I (b)	..	..	..	10
Part II (a) and Part II (b) together	..	..	..	60
Part II (a)	..	..	..	35
Part II (b)	..	..	..	35

**B.COM. (HONS.) Degree Examination (under the Revised Regulations)—**

Part I (Preliminary Examination)	..	..	..	20
Part I (a)	..	..	..	15
Part I (b)	..	..	..	10
Part II	..	..	..	55

	Rs.
B.Sc. (Pass) Degree Examination—	
Part I .. .. .	10
Part II—	
Main Subject and two Subsidiary Subjects ..	45
Main Subject .. .. .	25
Each Subsidiary Subject .. .. .	15
B.Sc. (HONS.) Degree Examination—(Physics)—	
Part I (Whole) .. .. .	15
Part I (a) or Part I (b) .. .. .	10
Part II (Whole) .. .. .	60
Main Subject .. .. .	40
Two Subsidiary Subjects .. .. .	25
One Subsidiary Subject .. .. .	15
B.Sc. (HONS.) Degree Examination (Chemistry Main)—	
Part I (Whole) .. .. .	15
Part I (a) or Part I (b) .. .. .	10
Part II (Whole) .. .. .	60
Part II Main Subject .. .. .	40
Part II, two Subsidiary Subjects .. .. .	25
Part II Physics (Subsidiary) .. .. .	15
Part II Mathematics (Subsidiary) .. .. .	10
B.Sc. (HONS.) Degree Examination (General Chemical Technology as Main)—	
Part I (a) Mathematics .. .. .	10
Part I (b) Physics .. .. .	15
Part I (c) Chemistry .. .. .	20
Part I (d) Descriptive Engineering .. .. .	15
Part I Physics, Chemistry and Descriptive Engineering together .. .. .	45
Part II .. .. .	30
B.Sc. (HONS.) Degree Examination (with Botany or Zoology or Geology as Main)—	
Part I (Whole) .. .. .	15
Part I (a) or Part I (b) .. .. .	10
Part II (Whole) .. .. .	60
Main Subject .. .. .	40
Each Subsidiary Subject .. .. .	15
M.A., M.Sc., PH.D. Degree Examinations .. .. .	100
Do. (For submitting a Thesis a second time) ..	50
Under Revised Regulations—	
M.Sc. (Physics and Chemistry)—Whole Examina- tion (Thesis and Written) .. .. .	80

Rs.

Written and Practical .. .. .	50
Thesis .. .. .	50
M.Sc. Examination for B.Sc. Pass (First and Second Class) and for B.Sc. (Hons.) (Third Class) at the end of 1 year .. .. .	35
For submitting a Revised Thesis .. .. .	50
M.Sc. in Applied Physics .. .. .	50
Do. Examinations for Pass Graduates at the end of the First year. .. .. .	25
M.Sc. in Chemical Technology .. .. .	60
M.Sc. in Chemistry (Special Subject, Foods, Drugs and Water) .. .. .	40
D.Sc. Examination .. .. .	200
For submitting a Revised Thesis .. .. .	100
<b>B.Ed. Degree Examination—</b>	
Whole Examination .. .. .	25
Practical Examination only .. .. .	10
Written Examination only .. .. .	15
M.Ed. Degree Examination .. .. .	100
<b>M.B. &amp; B.S. Degree Examination—</b>	
Pre-Registration Examination (1st appearance) .. .. .	30
Separate Subjects each .. .. .	15
<i>First M.B. &amp; B.S. Exam.—</i>	
Whole Examination .. .. .	45
<i>Separate Subjects after first appearance—</i>	
Organic Chemistry .. .. .	15
Anatomy or Physiology .. .. .	20
<i>Second M.B. &amp; B.S. Exam.—</i>	
Whole Examination .. .. .	45
<i>Separate Subjects after first appearance—</i>	
Pharmacology .. .. .	20
Hygiene .. .. .	20
Forensic Medicine .. .. .	15
<i>Final M.B. &amp; B.S. Exam.—</i>	
Whole examination .. .. .	75
<i>Separate Subjects after first appearance—</i>	
Medicine or Surgery .. .. .	20
Obstetrics and Gynæcology .. .. .	15
Ophthalmology .. .. .	15
Pathology and Bacteriology .. .. .	20



			Rs.
M.D. or M.S. Degree Examination	..	..	200
Oriental Title Examinations—			
Vidya Praveena—Preliminary	..	..	12
Do. Final	..	..	12
Bhasha Praveena—Entrance Test	..	..	5
Do. Preliminary or Final	..	..	12
Do. Sanskrit only	..	..	5
Do. Modern Indian Language only	..	..	10
Certificate of Proficiency	..	..	10
Master of Oriental Learning	..	..	100

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# **Annamalai University**

## **Annamalainagar**

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### **Introductory**

The Annamalai University of Annamalainagar, Chidambaram, constituted under an Act of the Madras Legislature, owes its existence to the generous offer by Dr. Rajah Sir Annamalai Chettiar of Chettinad, of the collegiate institutions founded and managed by him at Chidambaram and a sum of Rs. 20 lakhs towards the endowment funds of the University. The Government of Madras enthusiastically responded to the offer by a contribution of Rs. 27 lakhs. The University is unitary, teaching and residential in character, the first of its kind in South India. In addition to the Faculties of Arts and Science, it has provision for a third faculty of Oriental Learning with a view to giving special importance to the study of Tamil, Sanskrit and Indian History, Indian Music and other subjects, in which special facilities for advanced study and research exist in this part of the country. Besides direct teaching and research, the system of tutorial instruction is an additional special feature of this University. The Teaching Staff is so organized as to make it possible for special and individual attention being given to the students.

### **Officers and Staff of the University**

#### **VISITOR**

His Excellency the Viceroy and Governor-General of India.

#### **CHANCELLOR**

His Excellency the Governor of Madras.

#### **PRO-CHANCELLOR AND FOUNDER**

Dr. Rajah Sir S. R. M. Annamalai Chettiar of Chettinad, Kt., LL.D.

#### **VICE-CHANCELLOR**

Rai Bahadur Dr. Sir K. V. Reddi Nayudu Garu, K.C.S.I.,  
D.Litt., M.L.C.

#### **REGISTRAR**

M. R. Ry. N. Visvanatha Ayyar Avl., M.A., L.T.

#### **LIBRARIAN**

M. R. Ry. K. Nagaraja Rao Avl., M.A., B.L.

**Members of the Teaching Staff**

- English** .. *Professor*: P. A. Subrahmania Ayyar, Esq., M.A.  
*Lecturers*: S. Krishnamurti, Esq., M.A.; A. C. Subrahmanyam, Esq., M.A., L.T.; K. P. Karunakara Menon, Esq., B.A. (Hons.); C. R. Myleru, Esq., B.A. (Hons.); M. S. Duraisvami, Esq., M.A.  
*Asst. Lecturer*: A Gopalan Nayar, Esq., B.A. (Hons.).
- History and Politics** *Professor*: M. R. Ry Rao Sahib C. S. Srinivasachariar Avl., M.A.  
*Lecturers*: R. Satyanatha Ayyar, Esq., M.A.; R. Bhaskaran, Esq., B.A. (Hons.); V. R. Viramani, Esq., B.A. (Hons.) (Lond.).  
*Asst. Lecturer*: P. C. Alexander, Esq., B.A. (Hons.).
- Economics** .. *Professor*: B. V. Narayanasvami Nayudu, Esq., M.A. Ph.D., B.Com., Bar-at-Law.  
*Lecturers*: V. G. Ramakrishna Ayyar, Esq., M.A.; C. W. B. Zacharias, Esq., M.A.; M. K. Munisvami, Esq., M.A., B.L.
- Philosophy** .. *Professor*: R. Ramanujachariar, Esq., M.A.  
*Lecturer*: C. T. Srinivasan, Esq., M.A.
- Mathematics** .. *Professor*: A. Narasinga Rao, Esq., M.A., L.T.  
*Lecturers*: G. V. Krishnasvami Ayyangar, Esq., M.A.; K. Rangasvami, Esq., M.A., M.Sc.; V. Ganapati Ayyar, Esq., M.A., D.Sc.; V. Sitaraman, Esq., M.Sc.  
*Asst. Lecturer*: P. Kesava Menon, Esq., B.A. (Hons.).
- Physics** .. *Professor*: S. Ramachandra Rao, Esq., M.A., D.Sc. (Lond.), F.Inst.P.  
*Lecturers*: N. S. Subba Rao, Esq., M.A.; T. P. Navanitakrishnan, Esq., M.A.; S. Narayanasvami Ayyar, Esq., M.A.; R. K. Visvanathan, Esq., M.A.  
*Asst. Lecturers*: P. S. Varadachari, Esq., M.Sc.; S. Sriraman, Esq., M.Sc.

- Chemistry** .. *Professor*: S. V. Anantakrishnan, Esq.,  
ph.D. (Lond.).  
*Lecturers*: M. L. Sitaraman, Esq., M.Sc.;  
N. Anantavaidyanathan, Esq., M.A.;  
A. P. Madhavan Nayar, Esq., B.A.  
(Hons.).  
*Asst. Lecturers*: V. Pasupati, Esq.,  
M.Sc.; S. Aravamudachari, Esq.,  
M.Sc.; R. Venkataraman, Esq., M.Sc.
- Botany** .. *Professor*: T. S. Raghavan, Esq., M.A.,  
ph.D. (Lond.), F.L.S.  
*Lecturer*: K. R. Venkatasubban, Esq.,  
M.Sc., L.T.  
*Asst. Lecturer*: K. Rangasvami, Esq.,  
B.Sc.
- Zoology** .. *Lecturer*: R. V. Seshaiya, Esq., M.A.;  
*Asst. Lecturer*: R. Vasudevan, Esq.,  
B.Sc.
- Tamil** .. *Professor*: M. R. Ry. K. Subramania  
Pillai Avl., M.A., M.L.  
*Lecturers*: M. R. Ry. A. Chidambara-  
natha Chettiar Avl., B.A. (Hons.);  
R. Kandasvamiar Avl.  
*Senior Pandits*: M. R. Ry. A. Bhuvara-  
ham Pillai Avl.; L. P. K. R. Rama-  
nathan Chettiyar Avl.  
*Junior Pandits*: M. R. Ry. T. P. Pala-  
niappa Pillai Avl., Vidvan (*on leave*);  
R. P. Amirtalingam Pillai Avl.,  
Pandita; M. Arunachalam Pillai Avl.;  
Vidwan V. M. Somasundaram Pillai  
(*for Pandits Training also*); K. N.  
Chintamani Avl.; V. S. P. Manikkam  
Avl.
- Tamil—Research  
Section** *Lecturer*: M. R. Ry. G. Subramania  
Pillai, M.A., B.L.  
*Senior Pandit*: M. R. Ry. E. S. Varada-  
raja Ayyar Avl., B.A.
- Music** .. *Lecturers*: M. R. Ry. K. Varadachariar  
Avl.; Sattur S. Krishna Ayyangar  
Avl.  
*Senior Pandit*: M. R. Ry. M. S. Subrah-  
manya Ayyar Avl.  
*Junior Pandits*: M. R. Ry. V. S. Gomati  
Sankara Ayyar Avl.; K. S. Narayana-  
svami Ayyar Avl.; T. K. Rangachari

- Avl.; V. Swami Ayyar Avl.; R. Nilamegam Pillai Avl.; M. Nataraja Desigar Avl.
- Pandit's Training .. *Junior Pandit*: M. R. Ry. R. Gurusvami Sastri Avl., Siromani.  
*Part-time Lecturer in Pedagogy*: M. R. Ry. K. S. Venkatarama Ayyar Avl., B.A., L.T.  
*Part-time Drawing Master*: M. R. Ry. V. Subbaraya Ayyar Avl.
- Sanskrit .. *Professor*:  
*Senior Pandits*: M. R. Ry. T. Venkatarama Dikshitar Avl., Siromani; S. Ramasubba Sastri Avl.  
*Junior Pandits*: M. R. Ry. K. A. Sivaramakrishna Sastri Avl., Siromani; P. Panchapagesa Sastri Avl., M.O.L., Siromani; V. Subramanya Sastri Avl., Siromani; K. Srinivasachariar Avl., Siromani; V. K. Seshadri Acharya, Avl.
- Malayalam .. *Junior Pandit*: M. R. Ry. K. Kochukrishna Kurup Avl., Vidwan.
- Telugu .. *Junior Pandit*: M. R. Ry. T. Appanna Avl., Vidwan. B.O.L.; J. Chandrasekara Rao Avl., M.A., B.Ed.
- Physical Education *Director*: M. R. Ry. L. K. Govindarajulu Avl., B.A., B.L.  
*Assistant*: M. R. Ry. C. Aiyaru Avl.

### Constitution of the University

The principal authorities of the University are the Senate, the Syndicate, the Academic Council, the Faculties, the Boards of Studies and the Board of Selection.

The Vice-Chancellor is the principal executive officer of the University.

All appointments on the teaching staff are made by the Board of Selection, composed, in part, of representatives of the Syndicate and the Senate.

### Scholarships, Medals and Prizes

A reasonable number of scholarships are awarded on the basis of merit and poverty. Tuition is free to the students of the Oriental Faculty and stipends are given to them to meet boarding charges. There are a large number of endowed prizes, scholarships and medals awarded by the University for

proficiency in the Examinations. The Prize Endowment Fund amounts to Rs. 42,500 and the proceeds of the Fund are utilised towards the award of prizes and medals in accordance with the conditions of award relating to the several endowments.

An endowment of property valued at Rs. 75,000 was founded by His Holiness Srila Sri Kasivasi Svaminatha Tambiran Swannigal of Tiruppanandal Mutt, the annual income from which is to be utilized for (1) the award of a prize of Rs. 500 to the best student of the Tevara Tirumurai Course and (2) the publication of Tamil works of literature and grammar.

A gift of Rs. 25,000 has been made by the Founder-Pro-Chancellor of the University towards the propagation of Tamil Songs. Two competitions are held annually to award prizes for Tamil Compositions and Subsidies to Music Sabhas are also given for taking such steps as may be necessary to further the objects of the Founder.

### Library

The University has a Library, the affairs of which are managed by a Committee constituted by the Syndicate. The Library is housed in a separate building constructed and equipped at a cost of about Rs. 5,00,000.

The total number of books in the General and Sectional Libraries is over 60,000 (including back numbers of periodicals and manuscripts). The nucleus of the Library was the Library of the Sri Minakshi College which included a gift of about a thousand volumes from M. R. Ry. V. Venugopala Chetty Avl., I.C.S. The Library receives regularly 248 scientific and learned periodicals.

Each Department of study has its own seminar library for the use of Honours and Research students.

The Library is open from 7 a.m. to 5-30 p.m. and 7 p.m. to 9 p.m. on all days including Sundays and recognised holidays. The Library is thrown open to the Public.

### Provision for Research

There is provision for the award of Studentships and Fellowships to distinguished graduates for research work in different subjects, tenable at the University or abroad, the value of which ranges from Rs. 30 to Rs. 150 per mensem. Research Studentships have been awarded in Philosophy, History, Economics, Mathematics, Physics, Botany, Zoology, Chemistry, Sanskrit and Tamil. Grants-in-Aid of research work are also awarded under certain conditions.

With a view to providing for the advancement of learning in Tamil a research department in Tamil with a Lecturer and a Pandit is working under the guidance of the Head of the Department of Tamil.

### Publications and Research

The University generally undertakes the publication of the results of research work, lectures delivered and other theses and monographs.

The University publishes, in three issues a year, a research Journal which embodies the research work of members of the Teaching Staff and research students. The following are the University publications:—

1. *Factory Labour in India*, by Dr. Ahmed Mukhtar, M.A., Ph.D.
2. *Bhoja Raja*, by Prof. P. T. Srinivasa Ayyangar, M.A., L.T.
3. *Swaramelakalanidhi*, by Mr. M. S. Ramaswami Ayyar, B.A., B.L., L.T.
4. *Mukundamala*, by Mr. K. Rama Pisharoti, M.A.
5. *Pari Kathai*, by Mahavidwan R. Raghava Ayyangar.
6. *Navina Tarkam*, by Mr. K. R. Appalachariar, M.A.
7. *Swarasiddhanta Chandrika*, by Mr. K. A. Sivarama-krishna Sastrigal, Siromani.
8. *Tatva Bindhu*, by Prof. V. A. Ramasvami Sastrigal, B.A. (Hons.).
9. *Acoustics*, by Mr. R. K. Viswanathan, M.A.
10. *Sabapati Vilasa Nataka*, by Mm. S. Dandapaniswami Dikshitar.
11. *Trimsacloki*, by Mr. K. Rama Pisharoti.
12. *Distributize Co-operation*, by Sri. V. G. Ramakrishna Ayyar.
13. *Prohibition in the Salem District*, by Sri. C. Jagannathachari.
14. *Madras Debt Relief Act*, by Dr. B. V. Narayanaswami Naidu.
15. *Nyayakulisa*, by Prot. R. Ramanujachariar and Sri K. Srinivasachariar.
16. *Tamil Boon on Chemistry*, by Sri. N. Anantavaidyanathan, M.A.
17. *Nitimala* by Prof. R. Ramanujachariar and Pandit K. Srinivasachariar.

18. *Educational Psychology in Tamil*, by Sri. K. R. Appalachariar and Prof. R. Ramapujachariar.
19. *Philosophy of Æsthetic Pleasure*, by Sri. P. Panchapagesa Sastriar. M.O.L.
20. *History of Tamil Literature*, by Mahavidvan R. Raghava Ayyangar.
21. *Madras Sales Tax Act*, by Dr. B. V. Narayanasvami Naidu and S. Tiruvengadattan.
22. *Road and Rail Transport*, by Dr. B. V. Nayudu and S. R. N. Badri Rao.
23. *Groundnut*, by Dr. B. V. Nayudu and P. S. Hariharan.
24. *Tamil Books on Physics*, by Sri. R. K. Viswanathan.

With a view to the ultimate adoption of Tamil as the medium of instruction in the University the Syndicate instituted prizes for text-books in Tamil on various subjects. So far books in Tamil on Logic and Chemistry have been published. Manuscripts in Tamil on Physics and on Music selected for the award of a prize of Rs. 1,000 and Rs. 750 respectively will be published shortly. The Heads of Departments of Studies in History Economics, Mathematics, Botany and Zoology have been requested to arrange for getting ready manuscripts of text-books in the several optional subject suitable for use in the Intermediate classes. These will be published by the end of the year 1942.

### University Union

There is a University Union of which all students of the University are members. The constitution of the Union is based largely on that of the Union at Oxford. The Union elects its Chairman and Secretary and its affairs are controlled by a Committee consisting of staff and student members. There are, besides the Union, a number of Societies in connection with the various subjects of study, and papers are read and lectures delivered before those Societies at intervals. The University has also a Dramatic Club and a Students Co-operative Society. A Union Hall has been built at a cost of Rs. 15,000.

### Residence, Health and Discipline

Physical Training is compulsory for all students of the University. The University has extensive play-fields; a spacious Sports Pavilion has been constructed. A scheme for Boating will be put through shortly.

Every student of the University is required as a condition of admission to the University to reside (either in the Hostels



maintained or recognized by it or in approved lodgings) for not less than 80 per cent. of the number of days in a term in each academic year.

There are seven sections in the Hostel under the general supervision of the Warden. The cost of boarding and lodging is about Rs. 15 per mensem. A cheap mess is also run the average cost of which is Rs. 10 per mensem. There is accommodation at present for 500 students in the residential blocks. Four additional blocks with single rooms to accommodate a hundred and seventy-five students have been completed. There is a separate hostel for women students.

A dispensary with an isolation ward is maintained for the benefit of the students and the staff. There is a permanent Medical Officer on the Staff of the University. Medical Inspection is compulsory for all students and is conducted by the Medical Officer in co-operation with the Director of Physical Education. Quarters for the compounder, midwife and the ward-boy have also been provided.

### **Admission to the University, Courses of Study and Examinations**

The University offers in the Faculty of Arts the degrees of B.A. (Pass and Honours), M.A. and M.Litt.; in Science, the degrees of B.Sc. (Pass and Honours), M.A., M.Sc., and in the Oriental Studies, the degree of M.O.L. besides the Vidwan, Siromani and Sangita Bhushana Titles. There is also a course leading to the award of a Certificate of Training for Pandits in teaching Tamil and Samskrit.

### **Admission to Courses of Study**

To be eligible for Matriculation in the University, candidates should have passed the Matriculation Examination of an Indian University or the S.S.L.C. Examination of a recognised Board under the conditions prescribed in this behalf.

### **Courses of Study, Degrees and Examinations**

I. *The Intermediate Examination.*—The course of study consists of three parts and extends over a period of two years.

*Part I:—English.*

*Part II:—A Second Language.*—The course will comprise the study of text-books, grammar and translation and, in the case of vernaculars, original composition. The main object of the study of the Indian Languages is to train the student to use the languages as vehicles of modern thought.

1. Classical: Samskrit;

2. Indian: Tamil, Malayalam, Telugu, Hindi and Canarese.

*Part III*:—Three subjects to be selected out of the following Groups A and B at the option of the candidate:

GROUP A

Mathematics  
Physics  
Chemistry  
Natural Science  
Geography

GROUP B

Logic  
Indian History  
Ancient History  
History of Great Britain and Ireland  
Elements of Economics  
A third language (Samskrit, Telugu, Tamil or Malayalam)

There are three papers in English, two in the Second Language, and two papers in each of the three subjects selected under Part III.

Candidates obtaining 35 per cent. of the aggregate marks in Part I and Part II and in each of the three subjects under Part III shall be declared to have passed the Examination. Those obtaining 50 per cent. or over of the total marks in all the three parts put together will be placed in the first class and others in the second class. Those obtaining not less than 60 per cent. of the marks in any subject shall be declared to have gained distinction in that subject.

Candidates wishing to proceed to a degree course in Arts or Science, shall be required to choose at least two of the optional subjects either from Group A or Group B.

DEGREE OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

The B.A. Degree and B.Sc. Degree courses shall extend over a period of two years leading to an examination comprising the following parts:—

*Part I: English*.—The course shall comprise Modern English Prose text-books prescribed for both detailed and non-detailed study, the scope being indicated by the provision of four hours' teaching per week for two years. The examination shall consist of two papers and shall be taken along with those in other parts at the end of the second year.

*Part II: A Second Language* (Samskrit, Tamil, Telugu, Malayalam, Canarese).—Part II shall consist of two papers in a second language, the first on prescribed text-books comprising more of Modern Prose and less of Modern Poetry in that language and the other on Composition and Translation, the scope being indicated by four hours' teaching per week and the

examination being taken along with those in other parts at the end of the course of two years.

*Parts III and IV: Optional Subjects.*—Any two of the following subjects one under each of the two parts.

<i>Leading to the B.Sc. Degree</i>	<i>Leading to the B.A. Degree</i>
(i) Mathematics (4 papers)	(i) Philosophy (4 papers)
(ii) Physics (3 papers and a practical test)	(ii) History and Politics (4 papers)
(iii) Chemistry (3 papers and two practical tests)	(iii) Economics (4 papers)
(iv) Botany (2 papers and two practical tests)	(iv) English (4 papers)
(v) Zoology (2 papers and two practical tests)	(v) A language (4 papers)

The main features of the scheme are:—

- (i) The inclusion of English as an optional subject;
- (ii) The introduction of a course in composition and translation in the mother-tongue under Part II;
- (iii) The division of Arts and Science subjects under the optionals, the former group leading to the award of the B.A. Degree and the latter to the award of the B.Sc. Degree.

The minimum for a pass is 35 per cent. in Part I (English), 35 per cent. in Part II (Second Language) and 35 per cent. in each of the selected subjects under Parts III and IV with 30 per cent. special minimum in each division of the examination in the several subjects under Parts III and IV. Successful candidates obtaining not less than 60 per cent. of the marks in any Part shall be placed in the first class in that Part and those obtaining less than 60 per cent. and not less 50 per cent. in the second class and others in the third class.

#### DEGREE OF BACHELOR OF ARTS (HONS.) AND BACHELOR OF SCIENCE (HONS.)

For the B.A. (Honours) and B.Sc. (Honours) Degrees the course shall extend over a period of three years each consisting of three terms and shall comprise instruction in:—

1. English during the first year (Preliminary Examination).
2. One of the following branches of knowledge during the three years:

*Leading to B.Sc. (Honours)*

- (i) Mathematics (8 papers)
- (ii) Physics (6 papers and four practical tests)
- (iii) Chemistry (5 papers and three practical tests)

*Leading to B.A. (Honours)*

- (i) Philosophy (8 papers)
- (ii) History (8 papers)
- (iii) Economics (8 papers)
- (iv) (a) English Language and Literature (9 papers)  
(b) English with either Sanskrit or Tamil (10 papers)
- (v) Sanskrit Language and Literature (10 papers)
- (vi) Tamil Language and Literature (9 papers)

The minimum for a pass is 40 per cent. of the total marks and 30 per cent. in each of the three divisions of the Examination in each subject. Candidates obtaining 60 per cent. or more of the aggregate marks are placed in the first class and those getting not less than 50 per cent. in the second class and those getting less than 50 per cent. and not less than 40 per cent. in the third class.

The Honours Examination in each subject (other than science subjects) has a *viva voce* Examination the purpose of which is to assist the examiners in placing the candidates.

## M.A. DEGREE

On payment of Rs. 25, the M.A. Degree is conferred on B.A. (Honours) and B.Sc. (Honours) graduates, after the lapse of five years from the date of their passing the Intermediate examination.

## M.LITT. AND M.Sc. DEGREES

These are purely research degrees, awardable on the basis, of a thesis to Bachelors of Arts or Science (Pass or Honours) after the completion of an approved course of special study and research under the guidance and supervision of a teacher of the University for a period of one or two years in the case of Honours or pass graduates respectively.

A PH.D. Degree has been instituted on conditions similar to the M.LITT. and M.Sc. Degrees. It is open to M.LITT. and M.Sc. and Honours graduates. The thesis is to be submitted after an approved course of study and research for a period of two or

three years respectively at the University under the guidance of a teacher of the University.

A D.Sc. Degree has been instituted. It is open to P.H.D. and M.Sc. Degree holders. The thesis is to be submitted after an approved course of study and research for a period of two years or one year respectively at the University under the guidance of a teacher of the University.

The institution of a D.LITT. Degree on the lines of the D.Sc. Degree is under consideration. Regulations governing its award have been passed by the Syndicate and will be placed for approval by the Academic Council in March 1942.

#### ORIENTAL TITLES

The Siromani Title in (i) Vedanta, (ii) Mimamsa, (iii) Vyakarana, (iv) Sahitya, and (v) Nyaya, and Vidwan Title with Tamil (Main) and Samskrit (Subsidiary) and Tamil alone, are awarded after the successful completion of a four years' course leading to a Preliminary Examination at the end of the second year and a Final Examination at the end of the fourth year.

*Certificate of Proficiency in Oriental Learning.*—The examination is to be taken two years after passing the Preliminary Examination for titles.

The *M.O.L.* is a research degree. The thesis should be submitted after a two years' course from the date of passing the Certificate of Proficiency Examination.

*Sangita Bhushana Title.*—It is a course of four years leading to a Preliminary Examination at the end of the second year and a Final Examination at the end of the fourth year.

*Pandit's Training Certificate.*—The course extends over a period of one year leading to an examination for the award of a certificate of training in methods of teaching Tamil or Samskrit.

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# **Benares Hindu University**

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## **Introductory : Character of the University**

The objects of the Benares Hindu University, which is a teaching and residential University, are:—

- (i) to promote the study of the Hindu Shastras and of Sanskrit literature generally as a means of preserving and popularizing for the benefit of the Hindus in particular and of the world at large in general, the best thought and culture of the Hindus, and all that was good and great in the ancient civilization of India;
- (ii) to promote learning and research generally in arts and science in all branches;
- (iii) to advance and diffuse such scientific, technical and professional knowledge, combined with the necessary practical training, as is best calculated to help in promoting indigenous industries and in developing the material resources of the country; and
- (iv) to promote the building up of character in youth by making religion and ethics an integral part of education.

The University is an All-India institution and is open to persons of all castes and creeds, and so are its free studentships, stipends, general scholarships of merit and fellowships. It is denominational only to the extent of making special provision for imparting instruction in Hindu Theology and Religion and in making instruction in Hindu Religion compulsory in the case of Hindu students. The University was incorporated in 1915 and as there was already a fully equipped College in existence, the Central Hindu College, Benares, the work of the University began in 1916. The University has since been removed to a magnificent site of 1,300 acres in which have been laid out the various buildings.

The University at present consists of twelve constituent institutions: College of Oriental Learning, College of Theology, Central Hindu College, Women's College, Teachers' Training College, College of Science, College of Technology, Engineering College, Department of Mining and Metallurgy, Institute

of Agricultural Research, Law College and the College of Ayurveda. Besides these institutions, the University has a School Board which looks after the management of its three Schools: (1) Central Hindu School (for boys), (2) Central Hindu School for Girls, and (3) Rāṇvir Sanskrit Pathshala. The first two prepare students for the Admission examination and the third for the Praveshika examination of the University.

The Teachers' Training College and the three schools are situated within the Municipal limits of Benares and other institutions are within the University Campus outside the City of Benares.

### **Constitution of the University**

In addition to the Officers, the authorities of the University are: (1) The Court which is the supreme governing body; (2) The Council which is the Executive body of the Court; (3) The Senate which is the Academic body of the University; and (4) The Syndicate which is the Executive body of the Senate. The Faculties of the University are: Oriental Learning, Theology, Arts, Science (pure and applied), Technology, Law, and Medicine and Surgery (Ayurveda).

### **Officers and Staff of the University**

#### **LORD RECTOR**

His Excellency the Viceroy and Governor-General of India

#### **RECTOR**

Pandit M. M. Malaviya, B.A., LL.B.

#### **VISITOR**

His Excellency the Governor of the United Provinces of Agra and Oudh

#### **CHANCELLOR**

General His Highness Rajarajeswar Narendra Shiromani Shri Maharajadhiraja Sir Ganga Singh Bahadur, G.C.S.I.,  
G.C.I.E., G.C.V.O., G.B.E., K.C.B., A.-D.-C., LL.D.,  
Maharaja of Bikaner

#### **PRO-CHANCELLORS**

Air Commodore His Highness Rajarajeswar Maharajadhiraja Sir Umed Singh Bahadur, G.C.S.I., G.C.I.E., K.C.S.I.,  
K.C.V.O., A.-D.-C., LL.D.,  
Maharaja of Jodhpur  
and

Hon'ble Maharajadhiraj Dr. Sir Kameshwar Singh Bahadur;  
K.C.I.E., D.Litt., of Darbhanga

VICE-CHANCELLOR

Prof. Sir S. Radhakrishnan, M.A., D.Litt., LL.D., F.B.A.

PRO-VICE-CHANCELLOR

Pandit Iqbal Narain Gurtu, M.A., LL.B.

TREASURER

Pandit Rama Kant Malaviya, B.A., LL.B., M.L.C.

REGISTRAR

Pandit G. P. Mehta, M.A.

ASSISTANT REGISTRAR

Pandit B. K. Zutshi, M.A., LL.B.

DEANS

Oriental Learning	..	Mm. Pandit Bal Krishna Misra, Tarka Chudamani, Nyaya Ratna.
Theology	..	Mm. Pandit A. Chinnaswami Sastri, Mimansakesari, Veda Visarad.
Arts	..	Prof. S. V. Puntambekar, M.A. (Oxon.), Bar-at-Law.
Science	..	Dr. S. K. Basu, M.Sc., Dr.Phil. (Berlin).
Technology	..	Prof. H. P. Philpot, wh.sch., B.Sc. (Eng. Hons.) (London), M.Inst.C.E., M.I.Mech.E., M.I.A.E., M.I.Metals, F.N.I. (India).
Law	..	Mr. L. R. Siva Subramanyan, M.L.
Medicine and Surgery (Ayur-veda)	..	Mm. Dr. Kaviraj Gananath Sen, M.A., L.M.S., M.D.

COLLEGE OF ORIENTAL LEARNING

Principal	..	<i>Professor:</i> Mm. Pandit Bal Krishna Misra, Tarka Chudamani, Nyaya Ratna.
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*Teaching Staff*

Vedant	..	Prof. Mm. Bal Krishna Misra, Tarka Chudamani, Nyaya Ratna.
		<i>Asst. Professor:</i> Pandit Lakshmi Kant Jha.



- Nyaya** .. *Professor:* Pandit Sri Shankar Bhattacharya, Tark Ratna.  
*Tutor:* Pandit Badri Nath Shukla, Nyayacharya.
- Jain Nyaya** .. *Asst. Professor:* (Swetambar Jain Chair) Shri Sukh Lal Jain, Nyaya Kesari.  
*Tempy. Teacher:* Shri Dalsukh Bhai Malvania.
- Mimansa** .. *Hony. Professor:* Mm. Pandit A. Chin-  
naswami Sastri, Mimansakesari, Veda  
Viśarad.  
*Asst. Professor:* Pandit P. Pattabhīram  
Sastri, Mimansa-Nyayacharya.  
*Tutor:* Pandit A. Subramanya Sastri,  
Nyayacharya.
- Sankhya-Yoga** .. *Asst. Professor:* Pandit Hira Vallabh  
Shastri, Vyakaran-Sahitya-Sankhya-  
Yogacharya.
- Dharma Shastra** .. *Asst. Professor:* Pandit Vishwanath  
Sharma Pande, Dharma Shastracharya.  
*Lecturer:* Pandit Vashishtha Datt Misra,  
Dharma Shastracharya.
- Puran** .. *Lecturer:* Pandit Ram Priya Pathak,  
Sahityacharya.
- Sahitya** .. *Asst. Professors:* Pandit Vam Deva  
Misra; Pandit Mahadeva Pande,  
Vyakaran-Sahityacharya; and Pandit  
Ram Kuber Malaviya, B.A., Sahitya-  
Vyakaranacharya.  
*Lecturer:* Pandit Vishwanath Shastri  
Bharadwaja, M.A., Kavya Tirth.  
*Tutor:* Pandit Madhusudan Misra,  
Sahityacharya.
- Vyakaran** .. *Professor:* Pandit Kali Prasad Misra,  
Vyakaranacharya.  
*Asst. Professors:* Pandit Ambika Prasad  
Upadhyaya, Vyakaranacharya; and  
Pandit Raj Narayan Sharma, Vya-  
karanacharya.  
*Tutor:* Pandit Nirikshanpati Misra, Vya-  
karan-Sahityacharya.
- Jyotish** .. *Professor:* Pandit Baldeva Pathak, Jyo-  
tishacharya.  
*Asst. Professor:* Pandit Ram Vyas  
Pande, Jyotishacharya.

*Panchang Teacher*: Pandit Vindhyaeshwari Prasad Pande, Jyotishacharya.  
*Tutor*: Pandit Kedar Datt Joshi, Jyotishacharya.

English & Hindi .. *Tutor*: Pandit Gaya Prasad Jyotishi, M.A.

COLLEGE OF THEOLOGY

Principal .. Mm. Pandit A. Chinnaswami Sastri, Mimansakesari, Veda Viśarad.

*Teaching Staff*

Veda .. *Professor*: Mm. Pandit A. Chinnaswami Sastri, Mimansakesari, Veda Viśarad.  
*Asst. Professor*: Pandit Ram Jiva Dwivedi, Dharma Shastracharya.  
*Tutor*: Pandit Maratand Shastri, Veda-charya.

Paurohitya .. *Hony. Lecturer*: Pandit Bhim Sen Sharma.

CENTRAL HINDU COLLEGE

Principal .. Dr. U. C. Nag, M.A., Ph.D. (London).

*Teaching Staff*

Sanskrit .. *Professor* (Maharaja Sri Ramachandra Bhanj Deo Chair): Dr. S. C. Mookerji, M.A., Docteur-es-Lettres (Paris), Vedant Tirth, Sastri.  
*Asst. Professors*: Pandit Batuk Nath Sharma, M.A., Sahityopadhyaya; Pandit Baldeo Upadhyaya, M.A., Sahityacharya; Pandit S. R. Joshi, M.A., Sahityacharya; and Pandit Veermani Upadhyaya, M.A., Nyayacharya.

Pali .. *Lecturer*: Bhikhu Jagadish Kashyap, M.A.

English .. *Univ. Professor*: Dr. U. C. Nag, M.A., Ph.D. (London).

*Asst. Professors*: Pandit Jivan Shankar Yajnik, M.A., LL.B.; Dr. C. Narayan Menon, M.A., Ph.D., D.Litt. (Madras); Mr. M. M. Desai, M.A.; Mr. Brij Mohan Lal Sahney, M.A.; Mr. Ganesh Datt Sastri, M.A., LL.B.; Mr. Rajendra Lal Merh, M.A., L.T.; Mr. Ram Awadh

- Dwivedi, M.A.; and Mr. S. K. Singh, M.A.  
*Tutors:* Mr. G. S. Chunekar, M.A.; Mr. N. M. Kulkarni, M.A.; Mr. Vikramaditya Rai, M.A.; and Mr. Jagan Nath Kaul (Ount), M.A.
- Philosophy** .. *Professors:* Dr. S. K. Maitra, M.A., ph.D. (Calcutta); and Dr. B. L. Atreya, M.A., D.Litt. (B.H.U.).  
*Asst. Professors:* Mr. S. L. Dar, M.A., LL.B.; and Mr. T. R. V. Murti, M.A.
- Indian Civilisation & Culture** *Professor (Sayajirao Chair):* Dr. Sir S. Radhakrishnan, M.A., D.Litt., LL.D., F.B.A.
- Ancient Indian History & Culture** *Professor:* Dr. A. S. Altekar, M.A., D.Litt. (B.H.U.).  
*Asst. Professor:* Dr. R. S. Tripathi, M.A., ph.D. (London).
- History** .. *Professor:* Mr. S. V. Puntambekar, M.A. (Oxon.), Bar-at-Law.  
*Asst. Professors:* Mr. S. N. Bhattacharya, M.A.; Dr. Parmatma Saran, M.A., ph.D. (London); and Dr. Raj Bali Pande, M.A., D.Litt. (B.H.U.).
- Economics & Commerce** *Professors:* Dr. B. R. Misra, M.A., ph.D. (London); and Dr. Pran Nath, ph.D. (Vienna), D.Sc. (London).  
*Asst. Professors:* Mr. K. P. Sipahi Malani, M.A.; Mr. Prem Chand, M.A. (Cantab.); Mr. S. D. Kalelkar, B.A. (Oxon.); Mr. Raman Lal Agrawal, M.A.; and Mr. K. N. Srivastava, M.A., B.Com.  
*Instructors:* Mr. Ram Dulare Vidyarthi, B.Com.; and Mr. Vishnu Narayan Gautam, M.A., B.Com.
- Politics** .. *Professors:* Mr. Mukut Behari Lal, M.A. (Ram Verma Chair); and Dr. Bool Chand, M.A., ph.D. (London).  
*Asst. Professor:* Mr. K. L. Verma, M.A.
- Mathematics** .. *Professor:* Mr. V. V. Narlikar, B.Sc. (Bombay), B.A. (Cantab.).  
*Asst. Professors:* Dr. Brij Mohan, M.A., LL.B., ph.D. (Liverpool); Mr. Jugal Kishore, M.A.; Mr. S. C. Das Gupta, M.A.; and Mr. S. Sastri, M.Sc.

	<i>Tutors:</i> Mr. B. L. Tripathi, M.A.; and Mr. Prafulla Nath, M.Sc.
Hindi	.. <i>Professor:</i> Pandit Keshava Prasad Misra. <i>Lecturers:</i> Pandit Jagannath Prasad Sharma, M.A.; Pandit Nand Dulare Bajpai, M.A.; Dr. Kesharai Narain Shukla, M.A., D.Litt. (B.H.U.); Pandit Vishwanath Prasad Misra, M.A., Sahityacharya; and Pandit Padma Narayan Acharya, M.A.
Urdu, Arabic & Persian	<i>Asst. Professor:</i> Mr. Mahesh Prasad, Movlvi Fazil. <i>Lecturer:</i> Syed Abul Hasan, M.A., M.F.
Bengali	.. <i>Lecturer:</i> Mr. B. C. Bhattacharya, M.A.
Marathi	.. <i>Lecturer:</i> Mr. B. G. Khaparde, B.A.
Modern European Languages	<i>Lecturer:</i> Dr. P. N. Roy, M.A., D.Litt. (Rome).
Religion	.. <i>Instructors:</i> Pandit Sri Krishna Joshi, B.A., LL.B.; and Pandit Amarnath Jaitley.

## WOMEN'S COLLEGE

Principal	.. Mrs. K. Venkateshwaran, M.A.
	<i>Teaching Staff</i>
Sanskrit	.. <i>Lecturers:</i> Mrs. Yamuna Devi Pathak, Shastri; and Mrs. P. Kalamkar, M.A.
English	.. <i>Lecturers:</i> Miss E. K. Leela, M.A., L.T.; Miss Kamla Achaya, M.A.; and Mrs. L. Menon, M.A.
Philosophy	.. <i>Lecturers:</i> Mrs. K. Venkateshwaran, M.A., Logic; Dr. P. N. Razdon, B.A. (Hons.), Ph.D. (Edin.), Child Psychology ( <i>Part-time</i> ); and Mr. Lalji Ram Shukla, M.A., B.T., Philosophy and Logic ( <i>Part-time</i> ).
History	.. <i>Lecturers:</i> Miss P. C. Dharma, M.A., L.T., D.Litt. (Madras); and Miss Man Mohini Mulla, M.A.
Economics	.. <i>Lecturers:</i> Miss K. Kolhatkar, M.A.; and Mr. Prem Chand, M.A. (Cantab.) ( <i>Part-time</i> ).

Hindi	..	<i>Lecturers:</i> Miss Manorama Agrawal, M.A., B.T.; and Mrs. Gyanwati Trivedi, M.A.
Bengali	..	<i>Tutor:</i> Mr. B. C. Bhattacharya, M.A.
Marathi	..	<i>Tutor:</i> Mr. B. G. Khaparde, B.A.
Domestic Science	..	Dr. (Mrs.) S. Janaki, B.A., M.B.B.S.
Music	..	<i>Teachers:</i> Mrs. Usha Kitchlu (Vocal); and Miss Indumati Purohit (Instrumental). <i>Tabla Player:</i> Pandit Jiwan Shankar.

## TEACHERS' TRAINING COLLEGE

Principal	..	Mr. H. B. Malkani, M.A., S.T.C.D. (Bombay). <i>Teaching Staff</i>
Professors	..	Pandit Chandra Mauli Sukul, M.A., L.T.; and Mr. B. M. Ghoshal, M.Sc. L.T.
Asst. Professors	..	Mr. P. Subramaniam, M.A., L.T.; Dr. P. N. Razdon, B.A. (Hons.), Ph.D. (Edin.); and Mr. S. M. Mukerji, M.A., L.T.
Lecturers	..	Pandit Lalji Ram Shukla, M.A., B.T.; Pandit Shanti Nath Nagar, M.Sc., B.T.; and Pandit Sita Ram Chaturvedi, M.A., B.T., Visharad, LL.B.
Instructors	..	Mr. N. N. Rana, B.A., LL.B. (Physical Culture); Pandit Kesho Nath Nemju (Arts and Handicrafts); and Mr. S. L. Banerji (Drawing).

## COLLEGE OF SCIENCE

Principal	..	Dr. S. S. Joshi, D.Sc. (London) ( <i>Actg.</i> ). <i>Teaching Staff</i>
Chemistry	..	<i>Professors:</i> Dr. S. S. Joshi, D.Sc. (London) (University Professor); Dr. S. K. Basu, M.Sc., Dr.Phil. (Berlin) (Rampur Chair); and Mr. Phuldeo Sahay Verma, M.Sc. (Cal.), A.I.I.Sc. <i>Asst. Professors:</i> Mr. Dhirendra Nath Banerji, M.Sc.; Mr. Phanindra Nath Roy, M.Sc.

*Demonstrators:* Mr. A. T. Majumdar, M.Sc.; Mr. Krishna Chandra Bannerji, M.Sc.; Dr. S. K. Vashistha, M.Sc., D.Sc. (B.H.U.); Mr. G. R. Phansalkar, M.Sc.; Mr. K. Kondiah, M.Sc. (*on leave*); Mr. Sarju Prasad, M.Sc.; Mr. S. Raju, M.Sc.; Mr. D. N. Solanki, M.Sc.; Mr. K. S. Venkataraman, M.Sc.; Mr. K. S. Vishwanathan, M.Sc.; Mr. G. S. Deshmukh, M.Sc.; Mr. Gopal Tripathi, M.Sc.; and Mr. Damri Singh, M.Sc.

### Physics

.. *Professors:* Dr. B. Dasannacharya, M.A., Dr.Phil. (Munich), F.Inst.P. (London); Dr. R. K. Asundi, M.Sc., Ph.D. (London); and Dr. C. M. Sogani, M.Sc., D.Sc. (B.H.U.).

*Asst. Professors:* Mr. U. A. Asarani, M.A.; and Mr. Protul Chandra Ghose.

*Demonstrators:* Mr. Nand Kishore Pande, B.Sc.; Mr. Baidya Nath Majumdar, M.Sc.; Dr. S. S. Banerji, M.Sc., D.Sc. (B.H.U.); Mr. Lalit Kishore Singh, M.Sc.; Mr. Nand Lal Singh, M.Sc.; Mr. B. Dayal, M.Sc. (*on leave*); Mr. C. Dakshinamurti, M.Sc.; Mr. A. C. Seth, M.Sc.; Dr. Gopi Krishna Das, M.Sc., D.Sc. (B.H.U.); Mr. A. Sambasiva Rao, M.Sc.; Mr. L. S. Sundara Rajan, B.Sc. (Hons.); Mr. V. C. Bedekar, M.Sc.; Mr. S. Y. Tiwari, M.Sc.; and Mr. R. S. Sharma, M.Sc.

### Botany

.. *Professor:* Dr. Y. Bharadwaja, M.Sc., Ph.D. (London), F.L.S. (London), F.N.I.

*Asst. Professors:* Mr. N. K. Tiwari, M.Sc.; Mr. K. R. Mehta, M.Sc.; Dr. A. C. Joshi, D.Sc. (Punjab), F.N.I.; and Dr. Ram Deva Misra, M.Sc., Ph.D. (London).

*Demonstrators:* Dr. G. N. Pathak, M.Sc., Ph.D. (London); Mr. Ram Yash Roy, M.Sc.; Mr. Jogendra Nath Misra, M.Sc., B.T.; and Mr. Ram Nagina Singh, M.Sc.

- Zoology** .. *Professor*: Dr. A. B. Misra, p.sc. (Lucknow), D.Phil. (Oxon.), F.Z.S., F.R.E.S.  
*Asst. Professors*: Mr. Chandra Bal, M.Sc.; Mr. Kedar Nath Gupta, M.Sc.; and Mr. Ram Chandra Saksena, M.Sc.  
*Demonstrators*: Mr. Sashadhar Chatterji, M.Sc.; Mr. V. L. Powar, M.Sc.; Dr. S. N. Mehrotra, M.Sc., D.Sc. (B.H.U.); Mr. V. G. Jhingran, M.Sc.; and Mr. S. S. Sinha, M.Sc.
- Geology** .. *Professor*: Dr. Raj Nath, M.Sc., Ph.D. (London), D.I.C.  
*Asst. Professor*: Dr. K. P. Rode, M.Sc., D.Phil. (Zurich) (*on leave*); Dr. H. L. Chibbar, M.Sc., Ph.D., D.I.C., D.Sc. (London).  
*Demonstrators*: Dr. G. W. Chiplonkar, M.Sc., D.Sc. (B.H.U.); Mr. R. C. Misra, M.Sc., B.T.; and Mr. C. Raja-gopalan, M.Sc.

## COLLEGE OF TECHNOLOGY

- Principal** .. Dr. N. N. Godbole, M.A., B.Sc., D.Phil. (Berlin).
- Teaching Staff*
- Industrial Chemistry** *Professor*: Dr. N. N. Godbole, M.A., B.Sc., D.Phil. (Berlin) (Tehri-Garhwal Chair).  
*Asst. Professors*: Mr. H. N. Bose, M.Sc., Dip.Ceramics (Hons.) (Stoke on Trent); and Mr. K. C. Trigunayat, M.Sc.  
*Lecturer*: Mr. A. N. Ghose, B.A., Ch.T. (Berlin).  
*Demonstrators*: Mr. K. D. Gupta, L.M.E., Engineer; Dr. B. G. Gunde, M.Sc., Ph.D. (Liverpool), A.I.C.; Mr. S. P. Pathak, M.Sc.; and Dr. P. D. Srivastava, M.Sc., D.Sc. (B.H.U.).
- Ceramics** .. *Asst. Professor*: Mr. H. N. Roy, Hon. cer. dip. (Stoke on Trent).  
*Demonstrators*: Mr. R. K. Govindacharya, M.Sc., cer.dip. (B.H.U.); and Mr. M. L. Misra, M.Sc., LL.B.  
*Modeller*: Mr. T. C. Paul.

- Glass Technology** .. *Professors:* Dr. V. S. Dube, M.Sc., Ph.D. (London); Dr. A. Nadel, Ph.D. (Vienna), D.Sc. (Paris). (*Hony.*).  
*Asst. Professors:* Mr. R. Charan, B.Sc. rech. (Sheff.), dip. glass rech. (Sheff.); A.M.Tech.I. (Great Britain); Mr. Y. P. Varshneya, M.Sc., A.I.C. (London); and Mr. P. N. Agrawal, M.Sc., dip.cer. (B.H.U.) (*on leave*).  
*Lecturers:* Mr. H. J. Arnika, M.Sc.; and Mr. K. N. Srivastava, M.A., B.Com.  
*Demonstrator:* Mr. Radhe Shyam Sharma, M.Sc., LL.B. (*on leave*).  
*Factory Superintendent:* Mr. Guru Datta Choudhary, B.Sc., Hons.rech. (Punjab), M.Sc. (*on leave*).
- Pharmaceutics** .. *Professor:* Mr. M. L. Schroff, A.B. Hons. (Cornell), M.S. (Massachusetts) (Raja Motichand Chair).  
*Asst. Professor:* Mr. N. K. Basu, M.Sc.  
*Lecturers:* Mr. D. N. Majumdar, M.Sc., A.I.I.Sc.; Mr. G. P. Srivastava, B.Sc. pharm.; and Mr. S. Prasad, M.Sc.

#### ENGINEERING COLLEGE

- Principal** .. Mr. H. P. Philpot, wh.sch., B.Sc. (Eng.), Hons. (London), M.Inst.C.E., M.I. mech.E., M.I.A.E., M.I.Metals, F.N.I. (India).

#### Teaching Staff

- Professors** .. Mr. H. P. Philpot, wh.sch., B.Sc. (Eng.), Hons. (London), M.Inst.C.E., M.I. mech.E., M.I.A.E., M.I.Metals, F.N.I. (India) (Jodhpur Hardinge Chair of Technology); Mr. R. S. Jain, B.Sc. (Illionois), M.A.I.E.E. (*Electrical Engineering*); Mr. G. C. Mukherji, M.Sc., M.A.I.E.E., M.I.R.E., A.I.E.E. (*Electrical Engineering and Applied Physics*); Mr. B. M. Singh, B.Sc. (Eng., B.H.U.) (*Mechanical Engineering*); Mr. R. C. Bhandari, B.Sc. (Punjab), B.Sc. rech. (Manchester) A.M.I.E.E., A.M.C.T. (*Electrical Engineering*).



- Asst. Professors** .. Mr. N. C. Mukherjee, M.Sc. (Calcutta) (*Electrical Engineering*); Mr. B. D. Kelkar, B.E. (Mysore) (*Mechanical Engineering*); Mr. P. C. Dutt, B.Sc. (Eng., B.H.U.) (*Electrical Engineering*); Mr. M. C. Pande, B.Sc. (Eng., B.H.U.) (*Electrical Engineering*); Mr. M. R. Agarwal, B.Sc. (Eng., B.H.U.) (*Electrical Engineering*); Mr. C. Chakravarti, B.Sc. (Eng., B.H.U.) (*Mechanical Engineering*); Mr. G. B. Pant, M.A. (B.H.U.) (*Engineering Mathematics*); Mr. V. P. Pande, B.Sc. (Eng., B.H.U.) (*Surveying and Building*); Mr. V. M. Rane, B.Sc. (Eng., B.H.U.) (*Mechanical Engineering*); Mr. S. S. Gairola, B.Sc. (Eng., B.H.U.) (*Mechanical Engineering*); and Mr. J. Prasad, B.Sc. (All.), B.Sc. (Eng., B.H.U.), Dip., K.T.C. (Glass.), C.I.C.T.A. (Trin.), M.I.B.E. (London) (*Mechanical Engineering*).
- Drawing Staff** .. Mr. A. T. Das (*Head Draughtsman, Mechanical Engineering*); Mr. R. Nanjundayya (*Head Draughtsman, Structural Engineering*); Mr. J. Das, (*Draughtsman, Mechanical Engineering*); Mr. Sukhdeo Prasad (*Draughtsman, Architectural Drawing*); Mr. B. D. Sharma (*Draughtsman, Mechanical Engineering*); Mr. B. K. Das (*Draughtsman, Mechanical Engineering*); and Mr. A. K. Bhaduri (*Draughtsman, Electrical Engineering*).
- Practical Training Staff** .. Capt. B. Chatterjee, A.M.I.A.E. (*Superintendent of Workshops*); Mr. A. H. King (*Honorary Instructor Foreman, Woodwork*); Mr. Mahabir Prasad, (*Instructor Foreman, Power and Electric Supply*); Mr. Benilal (*Instructor Foreman, Machine and Fitting*); Mr. R. N. Tiwari (*Instructor Foreman, Mechanical Laboratory*); Mr. J. N. Singh (*Instructor Foreman,*

*Electrical Repairs*); Mr. S. C. Mukherjee (*Instructor Foreman, Motor Car Repairs*); Mr. Kashiprasad (*Instructor Foreman, Metal Works*); Mr. Ram Chandra (*Joint Instructor Foreman, Power and Electric Supply*); Mr. C. R. Choudhri (*Asst. Instructor Foreman, Machine and Fitting*); Mr. Kuar Ganesh Singh, B.Sc. (Eng., B.H.U.) (*Instructor, Practical Surveying and Engineering Laboratories*); Mr. S. M. Banerjee (*Demonstrator, Electrical Laboratory*); Mr. R. K. Bhatt, I.E. (Mech. & Elec.), M.Sc. (B.H.U.) (*Instructor, Mathematics (on leave)*); Mr. A. D. Bohra, B.Sc. (Eng., B.H.U.) (*Instructor, Mathematics*); and Mr. Suraj Prasad (*Instructor, Carpenter and Pattern making shop (on leave)*).

#### DEPARTMENT OF MINING AND METALLURGY

Head of the Dept. . . Dr. D. Swarup, B.Sc. (B.H.U.), Ph.D. (Sheff.), M.I. & S.I., M.I.M., M.M.G.I.

#### *Teaching Staff*

Professors . . Dr. D. Swarup, B.Sc., Ph.D. (Sheff.), M.I. & S.I., M.I.M., M.M.G.I. (*Metalurgy*); and Mr. N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C., F.G.S., M.Inst.M.M., M.M.G.I. (*Mining and Metallurgy (University Professor)*).

Asst. Professors . . Mr. A. Nandy, B.Sc. (Hons.) (Glasgow), C.P.E. (Glasgow) (*Mining and Surveying*); Mr. V. Gopalam Iyer, B.A., A.I.C., M.M.G.I. (*Chemistry and Assaying*); Mr. H. D. Mukerji, Dip. Mining (Bengal Eng. Coll.) (*Mining*); and Mr. U. Vaman Bhatt, B.Sc. (Met.) (B.H.U.) (*Metallurgy*).

Demonstrators . . Mr. S. Bhattacharya, B.A. (Surveying); and Mr. P. Mazumdar, B.Sc. (Met.) (B.H.U.) (*Metallurgy*).

#### INSTITUTE OF AGRICULTURAL RESEARCH

Head of the Institute Dr. B. N. Singh, M.Sc., D.Sc. (B.H.U.).

*Teaching Staff*

- Professor** .. Dr. B. N. Singh, M.Sc., D.Sc. (B.H.U.)  
(Irwin Chair of Agriculture) (*University Professor of Plant Physiology*).
- Asst. Professors** .. Mr. K. Kumar, M.Sc. (*Plant Physiology*); Dr. A. Lal, M.Sc., Ph.D. (London) (*Plant Pathology*); and Mr. S. Sampath, M.A. (*Genetics and Plant Breeding*).
- Demonstrators** .. Dr. B. N. Lal, M.Sc., Ph.D. (London) (*on leave*); Dr. R. S. Choudhary, M.Sc., D.Sc. (B.H.U.); Dr. P. B. Mathur, M.Sc., D.Sc. (B.H.U.) (*on leave*); Mr. N. K. Ananth Rao, M.Sc. (Agri.Bot.) (B.H.U.); Mr. Som Nath Mehra, M.Sc. (Agri.Bot.) (B.H.U.); and Mr. K. Das, M.Sc. (Agri.Bot.) (B.H.U.).  
Mr. S. L. Kapur, M.Sc. (Agri.Bot.) (B.H.U.) (*Agronomist*).

*Research Staff under the I.C.A.R.\* Scheme*

- In Charge** .. Dr. B. N. Singh, M.Sc., D.Sc. (B.H.U.).
- Assistants** .. Mr. K. Kumar, M.Sc. (Agri.Bot.) (B.H.U.); Dr. K. N. Lal, M.Sc., D.Sc. (B.H.U.) (*Senior*); and Mr. P. V. V. Seshagiri, M.Sc. (Agri.Bot.) (B.H.U.) (*Junior*).

## LAW COLLEGE

- Head of the Dept.** .. Mr. L. R. Siva Subramanyan, M.L. (Madras).

*Teaching Staff*

- Readers** .. Mr. L. R. Siva Subramanyan, M.L. (Madras); Mr. G. B. Joshi, M.A., LL.M. (Bombay), M.L. (Calcutta); and Mr. V. V. Deshpande, M.L. (Bombay).

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\* The Imperial Council of Agricultural Research, India, has sanctioned a scheme of research on the Physiology of Cane and Wheat.

## COLLEGE OF AYURVEDA

## Principal

.. Dr. B. A. Pathak, M.B.B.S.

*Teaching Staff*

## Professor

.. Pandit Satya Narain Shastri, Nyaya-Vyakaran-Sahitya Shastri, Vishag-acharya, Vishag Shiromani, Ayurveda (Khimji Visanji Chair).

## Lecturers

.. Vaidya Ratna Kaviraj Pratap Sinha (*Ras Shastra and Bhaisajya Kalpana*); Pandit Jagannath Sharma Vajpai, M.A., Ayurvedacharya (*Diagnosis and Treatment*); Pandit Purushottam Upadhyaya, Ayurveda Shastri (*Materia Medica*); Pandit Rajeshwar Datt Misra, Ayurvedacharya (*Ayurveda*); Mr. D. A. Kulkarni, M.Sc. (*Chemistry and Physics*); Thakur Balwant Singh, M.Sc. (*Botany*); Mr. Ram Swarup Singh, M.Sc. (*Zoology*) (*on leave*); Dr. M. S. Verma, B.Sc., M.B.B.S. (*Surgery*); Dr. B. G. Ghanekar, B.Sc., M.B.B.S., Ayurvedacharya (*Medicine*); Dr. K. N. Gairola, M.D. (Vienna) (*Anatomy*); Dr. Prabhu Nath, M.B.B.S. (*Physiology*); Dr. P. N. Misra, L.S.M.F. (U.P.), L.T.M. (Calcutta) (*Minor Surgery*); Dr. (Mrs.) S. Janaki, B.A., M.B.B.S. (*Midwifery and Gynaecology*); Dr. S. Nath, M.B.B.S., D.O.M.S. (London), Z.L.O. (Vienna) (*Part-time*) (*Ear, Nose and Throat Diseases*); and Rai Saheb Dr. L. N. Mathur (*Dental Surgery*) (*Hony.*).

## Demonstrators

.. Dr. Prabhu Nath, M.B.B.S. (*Anatomy*); and Pandit Bhairava Prasad Shukla, Ayurvedacharya, Pharmacy (*Rasa Shastra and Bhaisajya Kalpana*).

## Tutors

.. Pandit Damodar Sharma Gour, Ayurvedacharya in Medicine and Surgery (*Ayurveda*); and Pandit Kalika Charan Pande, M.A., Sahityacharya Ayurvedacharya (*English, Sanskrit and Hindi*).

### Honorary University Professors

1. Dr. Sir P. C. Ray, **kt.**, **D.Sc.**, **C.I.E.**, Honorary University Professor of Chemistry.
2. Dr. Sir C. V. Raman, **kt.**, **M.A.**, **D.Sc.** (Calcutta), **LL.D.**, **F.R.S.**, **N.L.**, Honorary University Professor of Physics.
3. Professor N. C. Nag, **M.A.**, **F.I.C.**, Honorary University Professor of Chemistry.
4. Dr. Sir S. S. Bhatnagar, **O.B.E.**, **D.Sc.** (London), **F.Inst.P.**, **F.I.C.**, Honorary University Professor of Chemistry.
5. Sir S. Radhakrishnan, **M.A.**, **D.Litt.**, **LL.D.** **F.B.A.**, Honorary University Professor of Philosophy.
6. Dr. B. Sahni, **M.A.**, **Sc.D.**, **D.Sc.**, **F.G.S.**, **F.R.S.**, Honorary University Professor of Botany.
7. Dr. A. B. Dhruva, **M.A.**, **LL.B.**, **D.Litt.**, Honorary University Professor of Sanskrit.
8. Rao Bahadur K. V. Rangaswami Aiyangar, **M.A.**, Honorary University Professor of Economics.
9. Mm. Kaviraj Dr. Gan Nath Sen, **M.A.**, **M.D.**, **L.M.S.**, Honorary University Professor of Ayurveda.
10. Mm. Pandit Pramath Nath Tarkbushan, Honorary Professor of Hindu Religion.
11. Mr. S. C. De, **M.A.**, Honorary University Professor of Mathematics.

### Number of Students in the University

The total number of students in the University on March 31, 1941, was 3,945, of whom 204 were women students. These were distributed in the Institutions of the University as follows:

1. College of Oriental Learning	..	..	336
2. College of Theology	..	..	47
3. Central Hindu College (including 60 students who offered Law also)	..	..	887
Central Hindu College (Women students)	..	..	14
4. Women's College	..	..	140
5. Teachers' Training College	..	..	74
Do. (Women students)	..	..	10
6. College of Science	..	..	1,142
Do. (Women Students)	..	..	39
7. College of Technology (including 2 students who offered Law also)	..	..	294
8. Engineering College	..	..	392

9. Department of Mining & Metallurgy .. ..	133
10. Agricultural Research Institute (including 1 student who offered Law also) .. ..	48
Do. (Woman student) .. ..	1
11. Law College (excluding 63 students who offered other courses also) .. ..	129
12. College of Ayurveda .. ..	259
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TOTAL ..	3,945

**Number of Students who Appeared and Passed in  
Different Examinations of 1940-41**

Name of the Examination	No. of candidates appeared	No. of candidates passed
Praveshika .. ..	50	35
Madhyama, Part I .. ..	57	33
Do. Part II .. ..	29	22
Do. Part III .. ..	33	28
Shastri, Part I .. ..	56	37
Do. Part II .. ..	32	28
Do. Part III .. ..	29	27
Do. Sampurna .. ..	2	1
Acharya, Part I .. ..	30	17
Do. Part II .. ..	19	12
Do. Part III .. ..	14	14
Do. Sampurna .. ..	2	2
Paurohitya, Part I .. ..	2	2
Do. Part II .. ..	6	5
Do. Part III .. ..	5	5
Admission .. ..	1,666	765
Previous Sanskrit .. ..	178	164
Intermediate Arts .. ..	296	155
B.A. .. ..	302	228
M.A. .. ..	103	90
D.Litt. .. ..	1	1
B.T. .. ..	86	84
Modern European Languages (Diploma) .. ..	3	2
Intermediate Science .. ..	403	181
B.Sc. .. ..	168	102
M.Sc. .. ..	44	37
D.Sc. .. ..	5	5
B.Sc. (Industrial Chemistry) .. ..	75	70
M.Sc. (Do. ) .. ..	7	7
Soap Manufacture Diploma .. ..	8	7
Metal Enamelling and Pottery and Porcelain Diploma .. ..	8	8
I.Sc. Ceramic Technology .. ..	10	8
Do. Glass Technology .. ..	9	6
B.Sc. Do. Part I .. ..	12	9
Do. Do. Part II .. ..	5	4

Name of the Examination	No. of candidates appeared	No. of candidates passed
Glass Technology Foreman Certificate .. ..	1	..
B.Pharm., First Year .. ..	24	17
Do. Second Year .. ..	8	5
Do. Final Year .. ..	11	11
I.Sc., Engineering, Part I .. ..	142	111
Do. Do. Part II .. ..	118	95
B.Sc., Do. Part I .. ..	120	94
Do. Do. Part II .. ..	88	78
Mining and Metallurgy, First Year .. ..	53	38
Do. Second Year .. ..	36	26
Mining, Final .. ..	15	13
Metallurgy, Final .. ..	19	16
M.Sc., Agricultural Botany .. ..	25	25
LL.B. (Previous) .. ..	101	73
Do. (Final) .. ..	105	93
First Professional Ayurveda .. ..	76	41
Second do. do. .. ..	54	32
Third do. do. Part A .. ..	28	25
Do. do. do. Part B .. ..	46	40

### Free Studentships, Scholarships and Medals

No fees are charged from the students of the Colleges of Oriental Learning and Theology; ten per cent. of the total number of students are exempted from the payment of tuition fees in the Central Hindu College, Women's College, Teachers' Training College, College of Science and the College of Ayurveda; five per cent. of students in the College of Technology, Department of Mining and Metallurgy, Institute of Agricultural Research and Law College and two per cent. of students in the Engineering College.

In addition to a number of endowed scholarships under the management of the University, the University has made provision for awarding the following scholarships:—

#### COLLEGES OF ORIENTAL LEARNING AND THEOLOGY

##### *Madhyama Classes*

Twenty-four scholarships of Rs. 4 each for the first year students.

Twenty scholarships of Rs. 5 each for the second year students.

Twenty scholarships of Rs. 5 each for the third year students.

*Shastri Classes*

- Ten scholarships of Rs. 6 each for the first year students.
- Ten scholarships of Rs. 7 each for the second year students.
- Ten scholarships of Rs. 7 each for the third year students.

*Acharya Classes*

- Six scholarships of Rs. 8 each for the first year students.
- Six scholarships of Rs. 8 each for the second year students.
- Six scholarships of Rs. 9 each for the third year students.

CENTRAL HINDU COLLEGE AND COLLEGE OF SCIENCE

Twelve scholarships of Rs. 10 each for the first year students of I.A. and I.Sc.

Twelve scholarships of Rs. 10 each for the second year students of I.A. and I.Sc.

Ten scholarships of Rs. 12 each for the third year students of B.A. and B.Sc.

Ten scholarships of Rs. 12 each for the fourth year students of B.A. and B.Sc.

Ten scholarships of Rs. 20 each for the post-graduate students of M.A. and M.Sc.

COLLEGE OF TECHNOLOGY AND INSTITUTE OF  
AGRICULTURAL RESEARCH

Four scholarships of Rs. 20 each for post-graduate students.

ENGINEERING COLLEGE

Two scholarships of Rs. 18 each for the second year students.

Two scholarships of Rs. 20 each for the third year students.

Three scholarships of Rs. 20 each for the fourth year students.

COLLEGE OF AYURVEDA.

One scholarship of Rs. 8 for a second year student.

One scholarship of Rs. 9 for a third year student.

One scholarship of Rs. 10 for a fourth year student.

One scholarship of Rs. 11 for a fifth year student.

One scholarship of Rs. 12 for a sixth year student.

These scholarships are awarded on the basis of merit in the examination results and are tenable for ten months in the year.

U.P. Government scholarships for the Teachers' Training College: Twenty scholarships of Rs. 20 each per mensem are awarded each year.



### Scholarships for Women Students

Twenty-six Birla Scholarships each of the monthly value of Rs. 15 and 4 each of the monthly value of Rs. 10 and ten Rajarshi Scholarships each of the monthly value of Rs. 10 besides some others are awarded to the women students studying in the University.

In all there are about 400 scholarships. Besides, fifty medals and a large number of prizes are awarded every year.

### Library, Laboratories, Gardens and Farms

The total number of books in the Library which, to a large extent, has been created by bequests, special donations and Government and University grants, is over 1,00,000. The books have been catalogued on the Dewey Decimal system and a complete catalogue in three volumes has been published. Important journals are subscribed to the extent of Rs. 10,000 per annum. The Library is housed in a magnificent building known as the "Sayaji Rao Gaekwad Library" for which His Highness the Maharaja of Baroda gave a donation of Rupees two lakhs to the University.

Laboratories in the following subjects are fully equipped: Chemistry, Physics, Botany, Zoology, Geology, Industrial Chemistry, Ceramics, Glass Technology, Pharmaceuticals, Mechanical and Electrical Engineering, Mining and Metallurgy and Agricultural Botany.

An extensive Botanical garden, an Ayurvedic garden and Agricultural farms are maintained for the study of plants, herbs and crops.

### Provision for Research

Facilities for research exist in the following subjects:—

Arts	.. English, Philosophy, Sanskrit, Hindi, Economics, History, Ancient Indian History and Culture, Political Science and Mathematics.
Science	.. Chemistry, Physics, Botany, Zoology, Geology and Mathematics.
Technology	.. Industrial Chemistry, Ceramics, Glass Technology, Pharmaceuticals, Mining and Metallurgy and Agricultural Botany.

### Publication and Extension Work

Provision has been made for the publication of lectures on Ancient Indian History and Culture out of the funds endowed for the Manindra Chandra Chair of Ancient Indian History and Culture. The following works have been published so far:—

- (1) "Some Aspects of Ancient Hindu Polity," by Dr. D. R. Bhandarkar, M.A. Ph.D. ,
- (2) "The Age of the Imperial Guptas," by R. D. Banerjee, M.A.
- (3) "Ancient Indian Economic Thought," by Rao Bahadur K. V. Rangaswami Aiyangar, M.A.

The University Journal is published quarterly.

The University received a donation of fifty thousand rupees for the publication of suitable text-books in Hindi for the Intermediate classes. The following books have been published so far :—

- (1) "Bharat Men British Samrajya" (British Rule in India), by Pandit Ganga Shanker Mishra, M.A., Librarian, Benares Hindu University.
- (2) "Prarambhik Bahutik Vijñan" (Elementary Physics), Illustrated, by Dr. N. K. Sethi, D.Sc., Professor of Physics, Benares Hindu University.
- (3) "Sadharana Rasayan" (Elementary Chemistry)—Parts I and II, by Mr. P. S. Varma, M.Sc., A.I.I.Sc., Professor of Chemistry, Benares Hindu University.
- (4) "Bhartiya Lokniti Aur Sabhyata" (Indian Citizenship and Civilization), by Mr. S. V. Puntambekar, M.A. (Oxon.), Bar-at-Law, Professor of History, Benares Hindu University.
- (5) "Swasthya Vijñan" (Hygiene), by Dr. M. S. Verma, B.Sc., M.B.B.S., Chief Medical Officer, Benares Hindu University.
- (6) "Sharir Rachna Vijñan" (Physiology), by Dr. M. S. Verma, B.Sc., M.B.B.S., and Dr. A. B. Seth, B.Sc., M.B.B.S., Benares Hindu University.
- (7) "Bharat ka Itihas—Hindu Kal" (History of India—Hindu Period), by Pandit G. P. Mehta, Professor of History, Benares Hindu University.
- (8) "Trikonmiti" (Trigonometry), by Mr. S. D. Pande, M.Sc., Principal, Birla College, Pilani.

### Military Training

Military Training is imparted through the University Training Corps which is a detachment of "D" Company, Third (U.P.) Battalion, U.T.C., I.T.F. Its present strength is four and a half platoons consisting of 5 Senior Grade Officers and 167 Cadet N.C.O.'s and Cadets. Among the Officers four are Captains and one Second Lieutenant.

The U.T.C. has been very popular among the students but as the admissions have to be limited, a large number of students are disappointed every year. In the annual Battalion Camps, the Benares Company won the Efficiency Cup for twelve years, almost continuously, except in the year 1928-29, when it went to the Allahabad University Training Corps. The award of the Efficiency Cup has been abolished since 1938. The Company has also won the Platoon Shield for four years.

The 400 yards classification range has been a great asset to the Corps.

### **Associations in the University**

1. The University Parliament.
2. The Boarders' Unions.
3. The Athenæum for study and research in English Literature.
4. The Scientific Society.
5. The Engineering Society.
6. The Mining and Metallurgical Students' Society.
7. The Economic Society.
8. The Historical Society.
9. The Sanskrit Association.
10. The Philosophical Association.
11. The Hindi Sahitya Sabha.
12. The Pharmaceutical Society.
13. The Athletic Association.
14. The Music Association.
15. The Dramatic Society.
16. The Old Students' Association.

### **Residence and Cost of Living**

The University Regulations require every student of the University to reside in a University Hostel or, if he is a student of a constituent college, in a College Hostel unless allowed by the Pro-Vice-Chancellor to reside with his parents or guardians under prescribed conditions. The majority of the students live in the hostels which are under the supervision of the Students' Residence Committee which deals with all questions relating to residence and social life in the hostels. There are at present seven Hostels on the University grounds accommodating nearly two thousand students. All the hostels are under the care and management of wardens and chief wardens. Special care is taken of the health of boarders and competent Medical Officers have been appointed for the purpose.

The cost of living including tuition fees varies from Rs. 35 to Rs. 50 according as students join Arts, Science or Engineering. Students of the Colleges of Oriental Learning and Theology are charged no fees for lodging and light and for servants.

### Budget

The income and expenditure for the year ending 31st March, 1941 was as follows:—

	Income			Expenditure		
Revenue	16,51,429	5	11	15,84,557	2	11
Capital	1,25,209	9	9	5,64,280	1	3
Special Funds	5,46,182	7	4	4,99,077	12	0
<b>TOTAL</b>	<b>23,22,821</b>	<b>7</b>	<b>0</b>	<b>26,47,915</b>	<b>0</b>	<b>2</b>

### Provident Fund

Every employee of the University receiving a salary of Rs. 20 or more per mensem is required to subscribe to the Provident Fund at the rate of  $6\frac{1}{4}$  per cent. and the University contributes at the rate of  $6\frac{1}{4}$  per cent. to those getting Rs. 150 per mensem or less, and  $3\frac{1}{8}$  per cent. to those getting 151 per mensem and above.

### Women's Education

There is a separate college for women which offers instruction up to the B.A. standard in English, Sanskrit, Hindi, History, Logic, Philosophy, Economics, Civics, Domestic Science and Music.

The students have to reside in the Khatau Makanji Hostel which contains one hundred seats.

### Students' Information Bureau and its Activities

None exists at present.

### Provision for Safeguarding Health, Medical Inspection, Discipline, etc.

There are Medical Officers in the University who reside in quarters assigned to them. They are not only required to attend to the medical needs of the residents in the University area but are also required to undertake the medical examination of the boarders of the University once a year.

The University maintains extensive grounds covering 300 acres of land furnishing ample facilities for football, hockey, cricket, tennis and other games. The gymnasiums are equipped with all necessary apparatus and a big stadium offers facilities for general Tract Athletics and other sports.

### Admission to the University, Degrees and Examinations

The University is, subject to Regulations, open to persons of all classes, creeds and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu Religion only. Women are eligible for admission to University examinations and degrees.

The University offers under the Faculty of Oriental Learning the Degrees of Shastri and Shastracharya; under the Faculty of Theology the Degrees of Smriti Ratna, Smriti Sagar, Dharma Shastri and Dharmacharya and the Diploma in Paurohitya and in Arts, the Degrees of B.A., M.A., and D.Litt., and in Science, the Degrees of B.Sc., M.Sc., and D.Sc. The Professional Examinations are Diploma in Modern European Languages and B.T. under the Faculty of Arts, B.Sc. (Engineering), B.Sc. (Mining), B.Sc. (Metallurgy), B.Sc. (Industrial Chemistry), M.Sc. (Industrial Chemistry), B.Sc. (Ceramic Technology), B.Sc. (Glass Tech.), M.Sc. (Glass Tech.), B.PHARM., M.PHARM., M.Sc. (Agricultural Botany), Diploma Examination in Soap Manufacture, Foreman Certificate Examination in Glass Technology under the Faculty of Technology, LL.B., LL.M., and LL.D., under the Faculty of Law, and Ayurvedacharya in Medicine and Surgery under the Faculty of Medicine and Surgery (Ayurveda).

### Courses of Study

#### FACULTY OF ORIENTAL LEARNING

*Praveshika Examination.*—The Examination is held for admission of students to the courses of study under the Faculties of Oriental Learning and Theology. The subjects for the Examination are:—(1) Sanskrit, (2) Modern Indian Language, (3) Mathematics, (4) History and Geography, or further course in Sanskrit Grammar and Literature, (5) Elementary Logic and if chosen, one of the following:—English, Drawing and Manual Training, Agriculture and Surveying.

*Madhyama Examination.*—Those who have passed the Praveshika or an equivalent examination are admitted to the Intermediate (Madhyama) courses. The course of study extends over a period of three years. Candidates are examined in

Sanskrit Language, a Modern Indian Language and any one of the following subjects: Advanced Sanskrit Grammar and Literature, a School of Indian Philosophy, Hindu Law and Jurisprudence, Hindu Astronomy and Mathematics and Purana.

*Examination for the Degree of Shastri.*—This is a three years' course after passing the Madhyama Pariksha. Candidates are examined in Sanskrit Language and Literature, a Modern Indian Language and Literature and one of the following subjects:—Advanced course in Sanskrit Grammar, Advanced course in Sanskrit Literature, Advanced course in the Vedas and Vedic Sanskrit, a School of Indian Philosophy, Hindu Law and Jurisprudence, Hindu Astronomy and Mathematics. A further course in Purana, History, Palæography and Epigraphy, Prakrit and Pali and English.

*Examination for the Degree of Shastracharya.*—This is a thesis examination which may be taken up by the candidate three years after passing the Shastri Examination in one of the subjects prescribed for the Shastri Examination. As in all advanced examinations, there might also be an examination, written, oral or both.

#### FACULTY OF THEOLOGY

Admission is restricted to Hindus.

*The Madhyama Pariksha.*—It is a course of study extending over three years including Sanskrit (Sruti, Smriti, Purana and Itihasa), Grihya Sutra, Elementary Jyotisha, Dasakarma Paddhati (Rituals and Ceremonies). Candidates who have passed the Praveshika or an equivalent examination are admitted to these courses.

*Degree of Smriti Ratna.*—The course which extends over a period of three years consists of a study of the Vedas, Smritis, Puranas and Itihasas, Six Systems of Indian Philosophy, Nyaya, Purva Mimamsa, Sayana's Introduction to Rig-Veda Bhashya, Bhagavadgita with commentaries, Mitakshara.

*Degree of Smriti Sagar.*—This is open to candidates who have passed the Smriti Ratna Examination and pursued an extensive and advanced course of study in the subjects prescribed for the above examination for not less than three years.

*Degree of Dharma Shastri.*—This is more like an examination in Rituals of Hindu Religion and is a course spreading over three years and is open only to those who can study the same according to the accepted usage of the community. Besides the subjects prescribed for the Smriti Ratna Examination, a candidate must study the Brahmanas, Shrouta Sutras, Satapatha Brahmana and Shulva Sutra.

*Degree of Dharmacharya.*—This is a thesis examination (supplemented by an examination, if necessary, oral, written or both) conducted three years after the candidate has passed the Dharma Shastri Examination.

### Diploma Examination in Paurohitya

In addition to the above courses there is a separate Diploma Examination in Paurohitya. The duration of the course is three years with a University examination at the end of each year. The course is open to candidates who have passed the Praveshika or an equivalent examination.

### FACULTY OF ARTS

*Admission Examination.*—The Admission Examination in the case of candidates for admission to the courses of study in Arts and Science consists of papers on (1) English, (2) Mathematics, (3) 'History with Elementary Civics' or 'Geography with Elementary Civics' and any two of the following subjects:—Sanskrit, another Classical Language, a Modern Indian Language, a Modern European Language, Elementary Physics and Chemistry, Botany, Drawing, Manual Training, Agriculture, Surveying, and Commerce. Women candidates can offer (1) English, (2) 'History with Elementary Civics' or 'Geography with Elementary Civics', (3) A Modern Indian Language, and any two of the following subjects:—Sanskrit, Mathematics, any other Classical Language, a Modern European Language, Elementary Physics and Chemistry, Botany, Drawing, Music, Manual Training, Agriculture, Surveying, Commerce and Domestic Science.

*Intermediate Examination in Arts and Science.*—Candidates who have passed the Admission Examination or an equivalent Examination are admitted to the courses of study for the Intermediate Examination in Arts or Science.

The course of study extends over two academic years and a candidate for the examination is required to offer for his examination (1) English (4 papers), (2) Composition in a Modern Indian Language (1 paper), and three subjects confined to one of the following groups:—Group A. Sanskrit (3 papers), and any two of the following subjects:—another Classical Language (3 papers), a Modern European Language (3 papers), Mathematics (3 papers), History (2 papers), Logic (2 papers), Psychology (2 papers), Drawing, Manual Training, Elementary Economics (2 papers), a Modern Indian Language and Literature (2 papers), Civics (2 papers), Music, Painting

and Domestic Science (the last three subjects for women candidates only) or Group B. Either Physics (2 papers), Chemistry (2 papers), and Mathematics (3 papers) or Physics (2 papers), Chemistry (2 papers) and Biology (2 papers). There is in addition a practical examination in Physics, Chemistry, Biology and women candidates can take Domestic Science in place of Physics or Chemistry.

Provided that a candidate who has passed the Previous Examination in Sanskrit\* or has passed the Admission Examination or any examination as equivalent thereto with Sanskrit, may take up any one of the optional subjects in lieu of Sanskrit.

*Intermediate Examination in Commerce.*—A candidate who is eligible for admission to courses of studies for the Intermediate Examination in Arts or Science is eligible for admission to courses of studies for the Intermediate examination in Commerce. The examination is held at the end of two academic years.

The following are the subjects of examination:—Compulsory subjects: (1) English (2 papers), (2) Book-keeping and Accountancy (2 papers), (3) Business Methods and Correspondence (2 papers), (4) Elementary Economics and Commercial Geography (2 papers), (5) One of the following optionals (2 papers each): Steno-typing (Shorthand and typewriting), Elements of Banking, Elements of Industrial Organization, Commercial Arithmetic.

NOTE.—Candidates appearing in the Admission Examination have the option of answering questions in Hindi in subjects other than English and those appearing in the Intermediate Examination in Arts or Science have the option of answering questions in the following subjects in Hindi: Sanskrit, History, Logic, Economics, Civics, Psychology, Music, Chemistry, Physics, Botany, Zoology, Mathematics and Domestic Science.

*B.A.*—A candidate for this examination must study for a period of two years in the University after passing the Intermediate Examination in Arts or Science. The subjects of the examination are the following:—

I. Compulsory subjects:

- (i) English.
- (ii) Sanskrit.
- (iii) Composition in a Modern Indian Language.

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\* The Previous Examination in Sanskrit is compulsory for students appearing in the Intermediate Arts and B.A. Examination who wish to take up some other subject in lieu of Sanskrit. Candidates who pass the Admission or an equivalent Examination, and the Intermediate Examination with Sanskrit as one of the subjects have not to appear in this Examination. The Examination is held thrice every year and the course covers some typical declensions and conjugations and simple samasas and easy selections in prose and poetry.



## II. Optional subjects:

(iv) Any *one* of the following subjects:—

- (a) Any other Classical Language (Persian, Arabic or Pali).
  - (b) A Modern European Language including English.
  - (c) Philosophy.
  - (d) Mathematics.
  - (e) History.
  - (f) Economics.
  - (g) Politics.
  - (h) A Modern Indian Language.
  - (i) Music.
  - (j) Painting.
  - (k) Domestic Science.
- } For women candidates  
} only.

Provided that a candidate who has passed the Previous Examination in Sanskrit or has passed the Admission Examination or any examination accepted as equivalent thereto or has passed the Intermediate Examination with Sanskrit, as one of his subjects may take up any one of the optional subjects in lieu of Sanskrit.

*Honours.*—A candidate may obtain Honours in any subject if he passes in the First Class in that subject as well as in a more advanced course in that subject prescribed for the purpose provided he obtains at least 45 per cent. marks in the aggregate of the remaining subjects.

Composition in a Modern Indian Language does not count as an independent subject for this purpose.

*M..1.*—The course of study extends over two years and is open to graduates of this or any other University recognized for the purpose.

A candidate may be examined in any one of the following subjects:—

- (1) Sanskrit.
- (2) English.
- (3) Pali.
- (4) Any other Classical Language.
- (5) Philosophy.
- (6) History.
- (7) Ancient Indian History and Culture.
- (8) Economics.
- (9) Politics.
- (10) Mathematics.
- (11) A Modern Indian Language and Literature.

*Doctor of Letters.*—This degree is conferred after the approval of the candidate's thesis and, if necessary, after a written and oral examination. It may be taken two years after his graduation as a Master of Arts or as a Master of Science in a subject prescribed for the M.A. Examination of the Benares Hindu University. Masters of Arts or Science of other Universities have to be resident members of the University for two years.

### TEACHING

*B.T.*—The course of study is open to graduates of this or any other University and extends over a period of one year. The courses of study and the scheme of examination are as follows: Principles of Teaching, History of Education, Methods of Teaching, School Management and Hygiene, in each of which there will be one paper, provision also being made for Practical Teaching, Criticism Lessons and Demonstration Lessons. In addition to the compulsory course, students may specialize in the Methods of Teaching in one of the following subjects:—English, Mathematics, History, Geography, Hindi, Science, Primary and Rural Education, Infant Education and Experimental Education.

*Diploma Examination in Modern European Languages (French, German and Italian).*—Any student who has passed the Admission or an equivalent examination and is pursuing his studies in the University is eligible to appear in the Examination. The course extends to two years.

### FACULTY OF SCIENCE

(The Intermediate Examination in Arts and Science under the Faculty of Arts.)

*B.Sc.*—It is a two years' course after passing the Intermediate Examination in Science.

The subjects of examination are the following:—

Any one of the following groups:

(a) Physics,	Chemistry,	Mathematics.
(b) Physics,	Chemistry,	Geology.
(c) Botany,	Chemistry,	Zoology.
(d) Botany,	Chemistry,	Geology.
(e) Zoology,	Chemistry,	Geology.

Provided that no candidate is permitted to take group (a) or (b) unless he has passed his Intermediate Examination with Mathematics and group (c), (d) or (e) unless he has passed his Intermediate Examination with Biology and in the case of a student who has passed the Intermediate Examination of any

other University or Board of High School and Intermediate Education established by an Act of the Legislature, with Physics, Chemistry and Biology or Botany. Women candidates are allowed to offer Domestic Science in place of any one of the subjects in any one of the groups. A candidate may also offer English (Modern and Practical) as an extra subject.

*Honours.*—A candidate may obtain Honours in any subject if he passes in the First Class in that subject as well as in a more advanced course in that subject prescribed for the purpose provided he obtains at least 45 per cent. marks in the aggregate of the remaining subjects.

*M.Sc.*—The course of study extends over two years.

A candidate may be examined in any one of the following subjects:—

- (1) Mathematics.
- (2) Chemistry.
- (3) Physics.
- (4) Zoology.
- (5) Geology.
- (6) Botany.

*D.Sc.*—This degree is conferred after the approval of the candidate's thesis and, if necessary, after a written and oral examination. It may be taken two years after his graduation as Master of Science. Masters of Science of other Universities have to be resident members of the University for two years. Besides the subjects mentioned above the thesis may be submitted in Industrial Chemistry and Agricultural Botany also which are shown under the Faculty of Technology.

## Courses of Study Leading to Professions

### FACULTY OF TECHNOLOGY

*B.Sc. (Industrial Chemistry).*—The duration of the course is two years and candidates who have passed the I.Sc. Examination with Physics, Chemistry and Mathematics are eligible for admission. The subjects for the examination are Chemistry, Industrial Chemistry and General and Chemical Engineering.

*M.Sc. (Industrial Chemistry).*—This is a two years' post-graduate course open to graduates in Industrial Chemistry. The duration is only one year for such candidates as have passed the M.Sc. Examination with Chemistry. The subjects for study are oils and soaps or ceramics.

*D.Sc. (Industrial Chemistry).*—The degree is conferred after the approval of the candidate's thesis, and if necessary after

a written and oral examination. It may be taken two years after graduation as Master of Science in Industrial Chemistry. The degree is conferred under the Faculty of Science.

*Diploma Examination in Soap Manufacture.*—Candidates who pass their Intermediate Science and B.Sc. Examination with Chemistry as one of their subjects are eligible for admission to this course which extends to two years in the former case and to one year in the latter case.

*B.Sc. (Ceramic Technology).*—The course extends to three years with a University Examination at the end of each year. Candidates who have passed the I.Sc. Examination with Physics and Chemistry are eligible for admission to the courses of studies. The subjects for each University Examination are:—

1. *Intermediate Examination in Ceramic Technology:* (1) Ceramic Technology, (2) Chemistry, (3) Geology and Mineralogy, (4) Machine Drawing.

2. *B.Sc. in Ceramic Technology, Part I:* (1) Pottery and Porcelain and Metal Enamelling, (2) Chemistry, (3) Refractories, (4) Engineering, (5) Industrial Economics.

3. *B.Sc. in Ceramic Technology, Part II:* (1) Pottery and Porcelain or Metal Enamelling, (2) Furnace Technology, (3) Fuels, (4) Pyrometry.

*B.Sc. (Glass Technology).*—This is a three years' course with a University Examination at the end of each academic year and is open to such candidates as have passed the I.Sc. Examination with Physics, Chemistry and Mathematics. The following are the subjects for each University Examination:—

1. *Intermediate Examination in Glass Technology:* (1) Ceramics, (2) Chemistry, (3) Geology and Mineralogy, (4) Machine Drawing.

2. *B.Sc. in Glass Technology, Part I:* (1) Glass, (2) Chemistry, (3) Refractories, (4) Engineering, (5) Industrial Economics and (6) German.

3. *B.Sc. in Glass Technology, Part II:* (1) Glass, (2) Furnace Technology, (3) Fuels, (4) Pyrometry.

*M.Sc. in Glass Technology.*—This is a purely research degree open to graduates in Glass Technology.

*Foreman Certificate Examination in Glass Technology.*—The course extends to two years and is open to candidates who pass the Admission or an equivalent examination with Science as one of their subjects.

• *Bachelor of Pharmacy.*—The duration of the course is three years and is open to candidates who have passed the I.Sc. Examination with Physics and Chemistry. There is a University

Examination at the end of each year. The subjects for study are: Pharmaceutical Chemistry, Pharmacy, Pharmacognosy, Pharmaceutical Economics and German.

*Master of Pharmacy.*—It is a research degree open to graduates in Pharmacy, who have to carry on research for at least one year in the University before being permitted to submit the thesis.

*B.Sc. (Engineering — Mechanical and Electrical).*—The minimum qualification for admission to the Degree Course in Engineering is I.Sc. with Physics, Chemistry and Mathematics. The course of study and practical training covers in all five years, of which the fifth year is entirely devoted to practical training.

The candidates have to pass the following four University Examinations:—

I.Sc. (Eng.) Part I at the end of the 1st Year.

I.Sc. (Eng.) Part II at the end of the 2nd Year.

B.Sc. (Eng.) Part I at the end of the 3rd Year.

B.Sc. (Eng.) Part II at the end of the 4th Year.

The Degree of B.Sc. in Engineering is awarded to those students who produce evidence which will satisfy the Syndicate that they have spent not less than one year (250 working days) in practical work or research after passing B.Sc. (Eng.) Part II Examination.

The courses of studies and subjects of examinations are as follows:—

*I.Sc. (Eng.) Part I.*—Group I: Mathematics (3 papers); Group II: Engineering Chemistry (1 paper) and Engineering Metallurgy (1 paper); Group III: Building (1 paper) and Surveying (1 paper); Group IV: Applied Mechanics (1 paper) and Heat Engines (1 paper); Group V: Electrical Engineering (2 papers); Group VI: Practical Geometry and Graphic Statics (1 paper) and Machine Drawing (1 paper); Group VII: Sessional works—(a) Electrical Engineering Laboratory; (b) Mechanical Engineering Laboratory; (c) Practical Surveying; (d) Machine Drawing; (e) Practical Geometry and Graphic Statics; (f) Workshop Practice. Group VIII: Periodical Examinations.

*Minimum Pass Marks.*—40 per cent. in each group of written papers, 60 per cent. in each subject of Sessional Work and 50 per cent. in the aggregate. The classification of the results shall be: Pass 50 per cent.; Second Class 60 per cent.; First Class 70 per cent. of the aggregate of the marks for Sessional Work, written papers and periodical examinations combined.

*I.Sc. (Eng.) Part II.*—Group I: Mathematics (3 papers); Group II: Heat Engines (2 papers); Group III: Applied Mechanics (2 papers); Group IV: Electrical Engineering (2 papers); Group V: Practical Geometry and Graphic Statics (1 paper), Machine Drawing (1 paper); Group VI: Sessional Works—(a) Electrical Engineering Laboratory; (b) Mechanical Engineering Laboratory; (c) Machine Drawing; (d) Practical Geometry and Graphic Statics; (e) Workshop Practice; Group VII: Periodical Examinations.

*Minimum Pass Marks.*—40 per cent. in each group of written papers, 60 per cent. in each subject of Sessional Work, 50 per cent. in the aggregate. The classification of the results shall be: Pass 50 per cent.; Second Class 60 per cent.; First Class 70 per cent. of the aggregate of the marks for Sessional Work, written papers and Periodical Examinations combined.

*B.Sc. (Eng.) Part I.*—Group I: Strength of Materials (1 paper), Theory of Structures (1 paper); Group II: Heat Engines (1 paper), Hydraulics (1 paper); Group III: Theory of Machines (1 paper), Electrical Technology (1 paper); Group IV: Electrical Measuring Instruments and Measurements (1 paper); and any one of the following (1 paper each)—(a) Principles and Design of Electrical Machines; (b) Utilisation of Electric Power with Traction; (c) Electrical Communications; Group V: Sessional Works—(a) Structural Design; (b) Mechanical Machine Design or Electrical Machine Design or Course Work in Electrical Communications; (c) Electrical Installation Design; (d) Mechanical Drawing and Graphic Statics; (e) Electrical Engineering Laboratory; (f) Mechanical Engineering Laboratory.

*Minimum Pass Marks.*—40 per cent. in each group of written papers, 60 per cent. in each subject of Sessional Work, 50 per cent. in the aggregate. The classification of the results shall be: Second Class 50 per cent. and First Class 70 per cent. of the aggregate of the marks for Sessional Work and written papers combined.

*B.Sc. (Eng.) Part II.*—Group I: Strength and Elasticity of Materials (1 paper), Theory of Structures (1 paper); Group II: Electrical Technology (1 paper) and Electric Power: Generation, Transmission and Distribution (1 paper); Group III: Heat Engines and Applied Thermodynamics (1 paper) and any one of the following (1 paper each)—(a) Principles and Design of Electrical Machines; (b) Utilisation of Electrical Power with Traction; (c) Electrical Communications; (d) Hydraulics and Water Power Engineering; (e) Surveying; (f) Reinforced Concrete and Reinforced Brick Structures; (g) Automobile Engineering and Aircraft Engines; Group IV: Engineering

Organisation and Economics (1 paper), Workshop Management and Production (1 paper); Group V: Sessional Works—(a) Workshop Practice or Approved Extra Mural Practice; (b) Electrical Engineering Laboratory; (c) Mechanical Engineering Laboratory; (d) Structural Design; (e) Electrical Installation Design; (f) Any one of the following: (i) Boiler, Engine or Machine Design, (ii) Course Work in any one of the subjects of Group III (a) to (g).

*Minimum Pass Marks.*—40 per cent. in each group of written papers, 60 per cent. in each subject of Sessional Work, 50 per cent. in the aggregate. The classification of the results shall be: Second Class 50 per cent., First Class 70 per cent., First Class with Honours 80 per cent. of the aggregate marks.

*B.Sc. (Mining) and B.Sc. (Metallurgy).*—The University offers a four-year course leading to the Degree of B.Sc. in Mining and a four year course leading to the Degree of B.Sc. in Metallurgy to students who have passed the Intermediate Examination, with Physics and Chemistry, of an Indian University or Board of Intermediate Education established by an Act of the Legislature.

An outline of the courses is given below :

*1st Year—(Common to Mining and Metallurgy).*

Mathematics.  
Applied Mechanics, Part I.  
Heat Engines, Part I.  
Practical Solid Geometry.  
Engineering Drawing, Part I.  
Applied Electricity, Part I.  
Metallurgy, Part I.

*2nd Year—(Common to Mining and Metallurgy).*

Geology and Mineralogy.  
Mining, Part I.  
Surveying, Part I.  
Applied Mechanics, Part II.  
Heat Engines, Part II.  
Engineering Drawing, Part II.

*3rd & 4th Year—Mining*

Mining, Part II.

Surveying, Part II.

Mining Geology.

Applied Electricity, Part II.

*3rd & 4th Year—Metallurgy*

Metallurgy, Part II.

Metallurgical Analysis. . . .

Physical and Metallurgical

Chemistry.

Assaying.	Applied Electricity, Part II.
Economics of Mining.	Fuels & Refractory Materials.
Mining Design.	Metallography & Pyrometry.
Thesis.	Mechanical Testing and Heat Treatment.
	Thesis.

Preference is given to candidates who have passed the Intermediate Examination with Mathematics. Candidates who have passed the Intermediate Examination without Mathematics, will, if admitted, be required to undergo a preparatory course in the subject after admission and to pass a Departmental Examination in the subject in November.

*Master of Science in Agricultural Botany.*—The duration of the course is two years and is open to graduates in Science with Botany, or graduates in Agriculture. The subjects for study are: Agricultural Plant Physiology, Genetics and Plant Breeding, Farm Crops and Plant Pathology. Candidates for the examination are required to submit a Thesis as part fulfilment of their course.

*Doctor of Science in Agricultural Botany.*—The degree is conferred after the approval of the candidate's thesis, and if necessary, after a written and oral examination. It may be taken two years after graduation as Master of Science in Agricultural Botany. The degree is conferred under the Faculty of Science.

#### FACULTY OF LAW

*LL.B.*—The course of study extends to two years and is open to graduates of this or any other University recognized by the Syndicate. There are two examinations, one at the end of the first year's course of study called the Previous Examination and the other the Final Examination held at the end of the second year of study. For the Previous Examination a candidate is expected to have studied Constitutional Law of England and India, Jurisprudence, Roman Law, the Law of Contracts, Sale of Goods, Law of Torts, Law of Companies, Partnership and Negotiable Instruments, the Law of Crimes and Criminal Procedure. The subjects for the Final Examination are:—Principles of Equity with special reference to the Law of Trusts and Specific Relief, the Law relating to Transfer of Property and the Law of Easements, Hindu Law, Muhammadan Law, the Law of Civil Procedure and Limitation, the Law relating to Land Tenures, Rent and Revenue, and the Law of Evidence.



**LL.M.**—The Master's Examination in Law is a two years' course. The subjects for the examination are as follows:—

- (1) Hindu Law—Ancient and Modern.
- (2) Roman Law with its History.
- (3) Comparative Jurisprudence.
- (4) Constitutional Law.
- (5) } Any two of the following subjects:—
- (6) }
  - (a) Principles of Equity including Law relating to Trusts and Specific Relief.
  - (b) The Law of Contracts.
  - (c) Private International Law.
  - (d) Public International Law.
  - (e) The Law relating to Transfer of Property including Wills.
  - (f) Muhammadan Law.

**NOTE.**—In regard to an optional subject, while a candidate is required to have a competent knowledge of the subject, he will be required to possess a detailed knowledge of one of its branches to be selected by him. The examination in Hindu Law and in Muhammadan Law is to comprise questions having special reference to the original authorities or translations thereof.

**LL.D.**—This is an examination chiefly by a thesis to be supplemented, if necessary, by an examination, oral, written or both. A candidate for this examination must have passed his LL.M. Examination at least one year before appearing for it.

#### FACULTY OF AYURVEDA (MEDICINE AND SURGERY)

**Ayurvedacharya.**—The duration of the course is six years during which the following examinations are held:

1. *The First Professional Examination.*—Subjects: Hygiene, Chemistry, Physics, Zoology and Botany (at the end of first year).

2. *The Second Professional Examination.*—Subjects: Anatomy, Physiology, Materia Medica and Pharmacy (at the end of third year).

3. *The Third and Final Professional Examination—Part A.*—Subjects: Obstetrics, Gynæcology, Diseases of Children, Medical Jurisprudence, Toxicology and Mental Diseases (at the end of fifth year).

4. *The Third and Final Professional Examination—Part B.*—Subjects: Diagnosis and Treatment of Diseases, Surgery and Pathology (at the end of sixth year).

For the practical training of students a Hospital with accommodation for one hundred patients with separate medical

and surgical wards has been provided. A dissection hall has been provided for post mortem clinicals. Candidates who have passed the Admission or equivalent examination with Sanskrit or the Praveshika Examination with English are eligible for admission.

Professional courses relating to the Bachelors Degree in Teaching and Diploma in Modern European Languages have been given under the Faculty of Arts.

#### RECOGNITION OF DEGREES AND DIPLOMAS OF OTHER UNIVERSITIES

Ordinarily the Entrance Examinations, Intermediate and Degree Examinations in Arts and Science of any Indian University established by an Act of the Legislature for the time being in force are recognised.

#### Scale of Fees

Examinations	Fees Rs.
Praveshika Examination .. ..	2
Do. (Private candidates) .. ..	3
Madhyama Examination (Parts I, II & III) each ..	2
Shastri Examination (Parts I, II & III) each ..	3
Sampurna Shastri Examination .. ..	5
Acharya Examination (Parts I, II & III) each ..	4
Sampurna Acharya Examination .. ..	10
Paurohitya Examination (Parts I, II & III) each ..	2
Admission Examination .. ..	15
Do. (Private candidates) .. ..	20
Previous Examination in Sanskrit .. ..	2
Intermediate Examination in Arts and Science each ..	24
B.A. and B.Sc. .. .. each ..	36
B.A. and B.Sc. (Extra for each Honours subject) ..	10
M.A. and M.Sc. .. .. each ..	50
D.Litt. and D.Sc. .. .. each ..	150
B.T. .. ..	36
Diploma Examination in Modern European Languages	20
Diploma Examination in Soap Manufacture ..	25
I.Sc. Ceramic Technology .. ..	30
B.Sc. Ceramic Technology (Parts I & II) .. each ..	36
I.Sc. Glass Technology .. ..	30
B.Sc. Glass Technology (Parts I & II) .. each ..	36
Foreman Certificate Examination in Glass Technology ..	25
Bachelor of Pharmacy (First, Second and Final Year) each ..	36

Examinations				Fees
				Rs.
Master of Pharmacy	..	..	..	50
Intermediate Examination in Engineering (Parts I & II)			each ..	26
B.Sc. Examination in Engineering (Parts I & II)			each ..	36
Mining and Metallurgy (First & Second Year)			each ..	20
Final Examination in Mining	..	..	..	50
Final Examination in Metallurgy		..	..	50
LL.B. (Previous)	..	..	..	20
LL.B. (Final)	..	..	..	30
LL.M.	..	..	..	150
First Professional Examination in Ayurveda			..	10
Second	do.	do.	..	15
Third	do.	do.	(Parts A & B)	
			each ..	20

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# **Bombay University**

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## **Introductory: Character of the University**

This University was established in 1857; but until the passing of the Indian Universities Act of 1904, the Bombay University, in common with the others, was limited to the function of examining candidates and arranging for the courses of study which led up to their degrees. Under the Act of 1904, it acquired the right of organizing teaching, arranging for University extension lectures and of publishing such works as were necessary for the direct educational work it was to carry on. By the Act of 1928, the constitution of the University was considerably changed. By reducing the proportion of the nominated to the elected members in the Senate, and by throwing open the door of the Senate to the representatives of a larger variety of interests, the new Act has ensured the independence of the University for all practical purposes and made the University a more popular and representative institution than it ever was in the past. Under the new Act, the executive functions of the University are carried on by the Syndicate, and most of the academic work is looked after by the Academic Council.

Chiefly owing to lack of funds, the University was not able to undertake any new activities until 1912 when a liberal offer from the Government of India made it possible immediately to launch out in new directions. The Government of India offered to the University a non-recurring grant of five lakhs of rupees and a recurring grant of Rs. 45,000 for the purpose of developing its activities as a teaching body. As a result in 1913-14, Sir Alfred Hopkinson of the Manchester University was invited to India to advise as to possible and suitable lines of development, and in 1914, post-graduate lectures on the basis of the needs of the M.A. students were held for the first time. Since 1918-19, the scheme was somewhat modified and placed on Inter-Collegiate lines. The various colleges in Bombay arranged a considerable amount of post-graduate teaching which was thrown open to qualified students of other colleges who were interested in the subjects or were working for the M.A. degree of the University. The University supplemented these by arranging for a limited number of courses on its own account to deal with matters in which it seemed essential to provide

training, but which were not adequately covered by the courses provided by the colleges.

In 1922, a Committee was appointed to revise the scheme of post-graduate studies in the light of the experience gained with regard to its working since its inauguration. The Committee submitted its report in March 1923 recommending that all post-graduate work should be undertaken under a centralized scheme by the University in co-operation with its Colleges and that the work, so far as Bombay was concerned, should be done as far as possible in the University buildings. As a result of the Committee's deliberations a revised set of regulations relating to post-graduate studies was adopted by the Senate in August 1924. The revised scheme was tried for a couple of years, but found unsatisfactory. Therefore, in December 1926, the Syndicate appointed a committee to consider the question in all its aspects and to draw up a comprehensive scheme of post-graduate teaching. The scheme prepared by this committee was laid before the Senate in July 1927. As there was a divergence of opinion among the members of the Senate in essentials, the Senate appointed a committee of its own to examine the scheme and while the report of the committee was under the consideration of the Senate, the new University Act was passed and the whole question was, therefore, left to be solved by the new Syndicate and by the Board of Post-Graduate Studies which was newly created by the Act. Now, the Board of Post-Graduate Studies practically control the whole of post-graduate instruction and research in the University, including what is done in this direction in the colleges affiliated to the University and other post-graduate institutions.

In essentials, the University remains a University, affiliating Colleges carrying on teaching work, but University Departments of Economics and Sociology have been opened with provision for both teaching as well as guidance in research. A Department of Chemical Technology has also been instituted and this Department began regular work from August 1, 1934.

One of the main ideas underlying the new Act is that the University should directly conduct post-graduate teaching and research in all branches of learning, and with this view the Act provides for the recognition of teachers in Colleges as University teachers for post-graduate instruction and research. The need for the undertaking of direct post-graduate teaching by the University has been always emphasized. But owing to lack of funds, the indirect control by the University of post-graduate teaching in the affiliated Colleges by confining such teaching to teachers recognized by the University is all that is possible at present. Accordingly, the Syndicate, at the beginning of the Academic year 1932-33, recognized, on the

recommendation of the Board of Post-Graduate Studies, a limited number of Professors from the affiliated Colleges as being competent to undertake Post-Graduate instruction and Research in various subjects as University Teachers. Every candidate for a post-graduate degree in Arts or Science is required to attach himself to a recognized University Teacher in the subject of his studies and work under him for the prescribed period so as to become eligible to appear for the examination for the Post-Graduate degree. Besides, post-graduate work in the University has been reorganized on the basis of co-ordination between Colleges, with a view to avoid multiplication of teaching work in one and the same subject. For the purpose of such co-ordination all the affiliated Colleges have been classified into six groups, *viz.*, (1) Bombay, (2) Poona, (3) Southern Maratha Country, (4) Gujarat, (5) Kathiawar, and (6) Sind.

The number of affiliated Colleges is 48. Of the affiliated Colleges, 23 are for degrees in Arts and Science, 3 in Arts only, 1 in Science, 3 for degrees in Commerce, 5 in Education and 2 in Agriculture, and there are 2 Medical, 2 Engineering and 7 Law Colleges. In addition to these affiliated Colleges, the University maintains its own institutions, *viz.*, the School of Economics and Sociology and the University Department of Chemical Technology. To have effective control over post-graduate activities at the Poona centre, the Board of Post-Graduate Studies have appointed a central committee consisting of the Heads of institutions in Poona connected with post-graduate teaching and research. A similar committee consisting of the Principals of Arts Colleges entitled to send up candidates for degree examinations and the Heads of the University Departments of Economics and Sociology has recently been appointed at the Bombay Centre.

## Officers and Staff of the University

### THE CHANCELLOR

His Excellency the Right Hon'ble Sir Lawrence Roger Lumley,  
G.C.I.E., D.L.

### THE VICE-CHANCELLOR

Mr. R. P. Masani, M.A.

### DEANS

IN ARTS	..	Principal M. B. Rehman, M.A., Ph.D.
IN SCIENCE	..	Principal G. R. Paranjpe, M.Sc., A.I.I.S.C., I.E.S.
IN TECHNOLOGY	..	Principal K. G. Naik, D.Sc., M.A., F.I.C., D.I.C., F.C.S.

IN LAW	.. Dewan Bahadur K. M. Jhaveri, M.A., LL.B.
IN MEDICINE	.. Rao Bahadur R. C. Motwani, M.S.

## THE SYNDICATE

R. P. Masani, Esq., M.A.

*Vice-Chancellor (Chairman)*Mr. S. N. Moos, M.A., I.E.S., Director of Public Instruction  
(*Ex-officio*)

Dewan Bahadur K. M. Jhaveri, M.A., LL.B.

Mr. B. J. Wadia, B.A., LL.B., Bar-at-Law.

Principal N. M. Shah, M.A., F.C.Ph.S., F.R.A.S.

Lt.-Col. S. L. Bhatia, M.C., M.A., M.D., B.Ch., F.R.C.P., I.M.S.

K. T. Shah, Esq., B.A., B.Sc., Bar-at-Law.

Dr. A. S. Erulkar, M.D.

Principal R. D. Karmarkar, M.A.

Moulvi M. Y. Haindaday, B.A., LL.B.

Mrs. G. R. Billimoria, M.A.

Dr. J. M. Mehta, M.A., Ph.D., Bar-at-Law.

Dr. B. G. Vad, M.D.

G. I. Patel, Esq., B.A.

N. V. Modak, Esq., B.E., A.M.Inst.C.E., M.I.E.

Principal S. B. Junnarkar, B.A., B.Sc.

The Hon'ble Mr. Justice H. V. Divatia, M.A., LL.B.

## REGISTRAR

Mr. S. R. Dongerkery, B.A., LL.B.

## DEPUTY REGISTRAR

Mr. D. N. Marshall, M.A.

## ASSISTANT REGISTRAR

Mr. Y. G. Athalye, B.A., LL.B.

## LIBRARIAN

Mr. P. M. Joshi, M.A., Ph.D.

## UNIVERSITY SCHOOL OF ECONOMICS AND SOCIOLOGY

*Administrative Head and Professor of Economics.*—Mr. C. N. Vakil, M.A. (Bom.), M.Sc. (Econ.) (Lond.), F.S.S.*Professor of Sociology.*—Dr. G. S. Ghurye, M.A. (Bom.), Ph.D. (Cantab.).*Reader in Sociology.*—Dr. N. A. Thoothi, B.A. (Bom.), D.Phil. (Oxon.).

*Reader in Economics.*—Mr. J. J. Anjaria, M.A. (Bom.), M.Sc. (Lond.).  
*Secretary.*—Mr. S. B. Raikar, B.A.  
*Librarian.*—Mr. N. A. Dalal, B.A.

## UNIVERSITY DEPARTMENT OF CHEMICAL TECHNOLOGY

## STAFF

Mody Professor of Chemical Technology and Head of Department	K. Venkataraman, M.A. (Madras), M.Sc.tech., Ph.D., D.Sc. (Manc.), F.I.C., A.M.I.Chem.E.
Singhaneer Reader in Chemical Engineering	G. P. Kane, M.Sc., Ph.D., D.I.C.
Singhaneer Lecturer in Industrial and Tinctorial Chemistry	T. N. Mehta, B.A., B.Sc. (Bom.), D.I.C., Ph.D. (Lond.), A.I.C.
Singhaneer Lecturer in Fuel Technology	M. R. Mandlekar, Ph.D. (Lond.), D.I.C.
Singhaneer Lecturer in Experimental Dyeing	G. M. Nabar, B.A., M.Sc. (Bom.), M.Sc.tech., Ph.D. (Manc.).
Research Assistant in Optics (and part-time Lecturer in Colloids)	B. K. Vaidya, M.Sc., Ph.D. (Liverpool).
Technical Assistant in Dyeing and Printing	S. R. Ramachandran, B.A., M.Sc. (Madras).
Singhaneer Demonstrator in Mechanical Engineering and Drawing (and part-time Lecturer in German)	P. K. Sathe, B.E. (Mech.) (Bom.).
Singhaneer Demonstrator in Chemical Engineering	J. G. Kane, M.Sc. (Bom.), A.I.I.Sc.
Singhaneer Demonstrator in Industrial and Tinctorial Chemistry	V. B. Thosar, B.A., M.Sc. (Bom.).
Demonstrator in Dyeing and Printing	S. M. Kaji, B.Sc., M.Sc. (Tech.).
Demonstrator in Industrial and Tinctorial Chemistry	V. S. Mehta, B.Sc., B.Sc. (Tech.).
Demonstrator in Chemical Engineering	M. G. Pandit, B.Sc., M.Sc. (Tech.).
Analytical Assistants	S. I. Taraporevala, B.Sc., B.Sc. (Tech.).
	N. F. Desai, B.Sc., B.Sc. (Tech.).
	T. S. Gore, B.Sc., B.Sc. (Tech.).



## PART-TIME LECTURERS

Industrial Administration	G. N. Vakil, M.A., M.Sc. (Econ.) (Lond.), F.S.S. (University Professor of Economics). J. J. Anjaria, M.A., M.Sc. (Econ.) (Lond.) (University Reader in Economics).
Mathematics	D. S. Agashe, B.A. (Cantab.) (St. Xavier's College).
Manufacture of Yarn and Cloth	D. F. Kapadia, B.A. (Bom.), M.Sc. Tech. (Manc.) (Victoria Jubilee Technical Institute).
Design Applied to Textile Printing	C. R. Gerrard, A.R.C.A., R.O.I. (Director, Sir J. J. School of Art).

This Department has been instituted to provide technological training and facilities in research for those who intend to adopt an industrial career. Two courses extending over two years have been organised—Textile Chemistry and Chemical Engineering. Students who follow either of these courses successfully and pass the prescribed examination and in addition fulfil the specified conditions as to works practice are awarded the degree of B.Sc. (TECH.). The minimum qualification for admission is a B.Sc. of the University of Bombay in the second class with Chemistry as principal and physics as subsidiary, or other equivalent qualifications. Not more than 12 students for Textile Chemistry and 10 for Chemical Engineering are admitted annually.

The tuition fees for Graduates of Bombay University are Rs. 125 per term and for other students Rs. 200 per term.

Facilities are also provided for students working for the higher degrees of M.Sc. (TECH.) and PH.D. in the Faculty of Technology. Other qualified students intending to carry out research work within the purview of the Department are also admitted if accommodation is available. The fees for the former are Rs. 30 per term, those for the latter being fixed in individual cases subject to a minimum of Rs. 30 per term.

## Scholarships and Fellowships

Four scholarships of Rs. 30 per mensem are awarded annually to students of the first and second years. There are 12 Singhanee research fellowships of Rs. 75 each per mensem for graduates of the Department who wish to carry out research for a higher degree. The following scholarships have also been endowed:—

*The Byramji Ratanji Lentin Scholarship* (about Rs. 570 per annum).—Awarded to the candidate who passes the B.Sc. (TECH.) Examination of the University with the highest total of marks in the branch of Textile Chemistry on condition that he continues his studies for the M.Sc. (TECH.) Examination.

*The Amelia, Wife of Dr. A. G. Viegas, Scholarship* (about Rs. 166 per annum).—Awarded to the candidate who passes the B.Sc. (TECH.) Examination of the University with the highest number of marks in Chemical Engineering and continues his studies for the M.Sc. (TECH.) Examination.

*The Chaturbhuj Jivandas Research Fellowship* (about Rs. 1,529 per annum).—Awarded to a candidate who has passed the M.Sc. (TECH.) Examination of the University and who is doing research on an approved subject in the Department of Chemical Technology tenable for one year in the first instance and renewable at the discretion of the Syndicate.

*Equipment.*—The equipment includes a large-scale bleaching, dyeing, printing and finishing plant capable of dealing with cloth upto 36" wide. Smaller machines are also provided for dealing with the bleaching and dyeing of hanks, cops and cheeses, and for the mercerising of hanks. The Chemical Engineering Laboratory is equipped on the unit system and is provided with machines for the following processes:—Disintegrating, wet and dry grinding and mixing, filtration, evaporation, extraction and distillation and for chemical reactions such as sulphonation, nitration, reduction and alkali fusion. Small plant is provided for experimental work on the flow of liquids and transference of heat.

Separate laboratories are provided for Experimental Dyeing, Tintorial and Technical Chemistry, Fuel and Optical work.

There is also a drawing office and a workshop equipped with modern machine tools.

*Library.*—A special library dealing with the various branches of chemical technology has been set up within the Department. Over 80 journals are at present being received either by gift or subscription; the back volumes of the more important of these journals have also been obtained.

*Facilities for Research.*—The Department is fully equipped for the conduct of research on all the common chemical industries. A research laboratory for the accommodation of eight students, an experimental dyeing laboratory, a dyehouse carrying a complete range of semi-scale plant for all processes from singeing to finishing and a very well-equipped optical laboratory are available, in which any problem in the chemical technology of textiles can be investigated. The technical chemistry and fuel laboratories provide facilities and space for

several workers in these subjects. The chemical engineering laboratories, containing unit plant of every type, offer opportunities for carrying out semi-scale work on non-dangerous chemicals and for the trying out of works processes. Most of the necessary apparatus and plant may be fabricated in the departmental workshop.

One of the main objects of the Department is to form a link between science and industry. While its primary function is to impart advanced training in textile chemistry and chemical engineering to suitable candidates in order to equip them to occupy responsible positions in industry, it also acts as a central research and analytical laboratory for the benefit of the industries of the Province, and is endeavouring to co-operate with mills and factories in investigating any problems that may arise in the course of their work.

### Affiliated Colleges and their Staff, 1940-41

#### ELPHINSTONE COLLEGE, BOMBAY

Principal .. Mr. G. B. Jathar, B.A. (Cantab.), M.A. (Edin.), Professor of History.

#### ROYAL INSTITUTE OF SCIENCE, BOMBAY

Principal .. Mr. G. R. Paranjpe, M.Sc., A.I.I.Sc., Professor of Physics.

#### WILSON COLLEGE, BOMBAY

Principal .. The Rev. Dr. John McKenzie, M.A., D.D. (Aberdeen), Professor of Philosophy.

#### ST. XAVIER'S COLLEGE, BOMBAY

Principal .. The Rev. A. M. Coyne, S.J., Professor of Philosophy.

#### GUJARAT COLLEGE, AHMEDABAD

Principal .. Mr. R. P. Patwardhan, B.A. (Bom.), M.A. (Oxon.), Professor of History and Economics.

#### RAJARAM COLLEGE, KOLHAPUR

Principal .. Mr. B. H. Khardekar, B.A. (Cantab.), LL.B. (Bom.), Bar-at-Law.

## BARODA COLLEGE, BARODA

Principal .. Dr. K. G. Naik, M.A., D.Sc., F.I.C.,  
Professor of Chemistry.

## FERGUSON COLLEGE, POONA

Principal .. Dr. G. S. Mahajani, M.A., Ph.D.  
(Cantab.), Professor of Mathematics.

## SAMALDAS COLLEGE, BHAVNAGAR

Principal .. Mr. Tejunmal Karamchand Shahani, M.A.,  
Professor of English, Economics and  
History.

## D. J. SIND COLLEGE, KARACHI

Principal .. Mr. N. B. Butani, M.A., B.Sc., Professor  
of Physics.

## BAHAUDDIN COLLEGE, JUNAGADH

Principal .. Mr. M. M. Zylhuruddin Ahmed, M.A.,  
Professor of Logic and Philosophy.

## SIR PARASHURAMBHAU COLLEGE, POONA

Principal .. Mr. R. D. Karmarkar, M.A., Professor  
of Sanskrit.

## KARNATAK COLLEGE, DHARWAR

Principal .. Mr. A. C. Farran, B.A. (Dublin), I.E.S.,  
Professor of History.

## M. T. B. COLLEGE, SURAT

Principal .. Mr. N. M. Shah, B.A. (Bom.), M.A.  
(Cantab.), F.R.A.S., Wrangler Pro-  
fessor of Mathematics.

## WILLINGDON COLLEGE, SANGLI

Principal .. Mr. V. K. Gokak, B.A. (Oxon.), Pro-  
fessor of English.

## D. G. NATIONAL COLLEGE, HYDERABAD (SIND)

Principal .. Mr. H. S. Bharwani, M.A., Bar-at-Law,  
Professor of English.

## ISMAIL YUSUF COLLEGE, ANDHERI

Principal .. Dr. M. B. Rehman, M.A., Ph.D., Pro-  
fessor of Arabic and Persian.

## NOWROSJEE WADIA COLLEGE, POONA

Principal .. Mr. V. K. Joag, M.A., Professor of Philosophy.

## LINGRAJ COLLEGE, BELGAUM

Principal .. Dr. S. C. Nandimath, M.A., Ph.D. (Lond.), Professor of Sanskrit.

## CHELLASING AND SITALDAS COLLEGE, SHIKARPUR (SIND)

Principal .. Mr. H. C. Malkani, M.A., Professor of History and Economics.

## SETH LALBHAI DALPATBHAI ARTS COLLEGE, AHMEDABAD

Principal .. Dr. V. K. R. V. Rao, M.A., Ph.D. (Cantab.), Professor of Economics.

## KHALSA COLLEGE, BOMBAY

Principal .. Mr. J. B. Raju, M.A., B.Sc., Professor of Philosophy.

## RAMNARAYAN RUIA COLLEGE, BOMBAY

Principal .. Dr. V. K. Bhagvat, M.Sc., Ph.D., A.I.I.Sc., A.I.C., Professor of Chemistry.

## DHARMENDRASINHJI COLLEGE, RAJKOT

Principal .. Dr. R. K. Yajnik, M.A., Ph.D. (Lond.), Professor of English.

## D. A. V. COLLEGE, SHOLAPUR

Principal .. Dr. G. L. Datta, M.A., Ph.D. (Gottingen), Professor of Physics.

## THE SYDENHAM COLLEGE OF COMMERCE AND ECONOMICS, BOMBAY

Principal .. Mr. M. J. Antia, M.A., LL.B., Bar-at-Law, I.E.S., Professor of English and Cotton Trade.

## HARGOVANDAS LAKHMICHAND COLLEGE OF COMMERCE, AHMEDABAD

Principal .. Mr. Gurumukh Nihal Singh, M.Sc. (Lond.), Bar-at-Law.

RAMNIRANJAN A. POTDAR COLLEGE OF COMMERCE,  
BOMBAY.

Principal .. Mr. V. Y. Kolhatkar, M.Com. (Bom.),  
M.Sc. (Lond.).

HANSRAJ PRAGJI THAKERSEY COLLEGE, NASIK

Principal .. Mr. T. A. Kulkarni, B.A., S.T.C.D., Pro-  
fessor of English and Indian Adminis-  
tration.

SOPHIA COLLEGE FOR WOMEN, BOMBAY

Principal .. The Rev. Mother C. Anderson, M.A.,  
R.S.C.J.

SECONDARY TRAINING COLLEGE, BOMBAY

Principal .. Mr. H. V. Hampton, M.A., Dip.Ed., I.E.S.

MAHARANI TARABAI TEACHERS' COLLEGE, KOLHAPUR

Principal .. Mr. K. S. Vakil; B.A., M.Ed.

SECONDARY TRAINING COLLEGE, BELGAUM

Principal .. Mr. P. S. Katti, M.A., and Wrangler.

SECONDARY TEACHERS' TRAINING COLLEGE, BARODA

Principal (*Ag.*) .. Mr. T. K. N. Menon, M.A. Dip.Ed.

TILAK COLLEGE OF EDUCATION, POONA

Principal .. Mr. M. R. Paranjpe, M.A., B.Sc.

AGRICULTURAL COLLEGE, POONA

Principal .. Mr. B. S. Patel, B.Ag., N.D.D., N.D.A.

KING GEORGE V INSTITUTE OF AGRICULTURE, SOKRAND (SIND)

Principal .. Dr. T. J. Mirchandani, M.Sc., Ph.D., Pro-  
fessor of Chemistry and Soil Physics.

NADIRSHAW EDALJI DINSHAW ENGINEERING COLLEGE,  
KARACHI

Principal .. Mr. S. B. Junnarkar, B.A., B.Sc.

COLLEGE OF ENGINEERING, POONA

Principal .. Mr. W. X. Mascarenhas, B.E., R.S.E.,  
Professor of Electrical Engineering.

## GOVERNMENT LAW COLLEGE, BOMBAY

Principal .. Mr. A. A. A. Fyzee, M.A. (Cantab.),  
LL.B., Bar-at-Law.

## INDIAN LAW SOCIETY'S LAW COLLEGE, POONA

Principal .. Mr. Jagannath Raghunath Gharpure,  
B.A., LL.B. (Hons.), Professor of Law.

## S. C. SHAHANI LAW COLLEGE, KARACHI

Principal .. Mr. P. B. Advani, M.A., LL.B.

## SIR LALLUBHAI SHAH LAW COLLEGE, AHMEDABAD

Principal .. Mr. M. M. Thakore, B.A., LL.B.

## LAW COLLEGE, KOLHAPUR

Principal .. Mr. B. S. Kalelkar, M.A., LL.B.

## SARVAJANIK LAW COLLEGE, SURAT

Principal .. Diwan Bahadur C. M. Gandhi, B.A.,  
LL.B.

## RAJA LAKHAMAGOUDA LAW COLLEGE, BELGAUM

Principal .. Mr. G. H. Kelkar, M.A., LL.B.

## GRANT MEDICAL COLLEGE, BOMBAY

Principal .. Rao Bahadur R. C. Motwani, M.S.

## SETH GORDHANDAS SUNDERDAS MEDICAL COLLEGE, BOMBAY

Dean .. Dr. Jivraj N. Mehta, M.D.

## Constitution of the University

The principal authorities of the University are the Senate which consists of 146 members (inclusive of the Chancellor and *ex-officio* members), the Syndicate which consists of 18 members, the Academic Council and the several Faculties and Boards of Studies.





Number of Students in the University—(Contd.)

	1930-31	1931-32	1932-33	1933-34	1934-35	1935-36	1936-37	1938-39
Dharmendrasinhji College, Rajkot	..	..	..	..	..	..	115	167
H. L. College of Commerce, Ahmedabad	..	..	..	..	..	..	181	407
The Secondary Training College, Bombay	60	75	98	100	97	101	101	101
Maharani Tarabai Teachers' College	..	..	..	..	73	101	100	100
Secondary Training College, Baroda	..	..	..	..	..	..	..	47
Poona Agricultural College	256	231	..	142	153	195	166	188
College of Engineering, Poona	170	172	184	195	218	216	210	197
N. E. D. Civil Engineering College, Karachi	143	149	116	165	159	218	198	188
Government Law College, Bombay	481	601	514	599	579	497	549	635
Law College, Poona	492	523	420	361	362	335	363	453
Law College, Karachi	57	43	96	96	97	83	104	72
Law College, Ahmedabad	124	326	197	216	197	176	194	262
Sarvajani Law College, Surat	..	..	..	..	..	52	85	63
Sykes Law College, Kolhapur	442	488	551	607	178	124	159	213
Grant Medical College, Bombay	..	290	323	363	690	716	718	738
Seth G. S. Medical College	263	..	..	..	389	419	432	450
TOTAL	11,889	14,647	13,964	16,199	17,270	17,121	18,193	19,986

## Number of Successful Candidates in the University Examinations

	1930-31	1931-32	1932-33	1933-34	1934-35	1935-36	1937-38	1938-39
Intermediate Examination in Arts	1,093	1,237	1,489	1,548	1,606	1,539	1,732	1,895
Intermediate Examination in Commerce	91	69	124	116	121	112	158	209
Intermediate Examination in Science	597	795	697	860	728	746	1,107	1,289
F.Y. Sc. (Agric.)	..	..	..	..	..	..	59	62
S.Sc. (Agric.)	..	..	..	..	..	..	53	35
First M.B.B.S. Examination	137	133	171	187	166	207	208	163
Second M.B.B.S. Examination	114	143	129	149	202	172	185	212
First Examination in Engineering	115	80	111	114	120	134	98	152
Second Examination in Engineering (Civil)	77	81	93	86	69	98	73	64
Second Examination in Engineering (Mech.)	9	11	11	15	18	52	52	49
First LL.B. Examination	477	595	482	499	525	441	550	758
Second Examination in Engineering	840	935	1,030	1,239	1,358	1,364	1,663	1,672
B.A. (Pass and Honours)	84	80	109	114	103	144	161	224
M.A.	54	79	65	78	82	74	92	128
B.Com.	..	..	..	..	..	..	..	..
M.Com.	1	2	..	..	1	3	3	1
B.T.	59	75	57	94	161	197	190	261
B.Sc.	321	325	343	310	333	423	392	548
M.Sc.	24	31	12	8	38	54	40	46
B.Sc. (Agri.)	53	58	132	51	42	42	42	54
B.E. (Civil)	86	89	78	62	114	67	86	38
B.E. (Mechanical)	3	8	11	9	8	5	17	24
B.E. (Electrical)	..	..	..	..	8	10	23	24
M.E.	..	..	..	..	..	..	1	..
LL.B. (Final)	428	394	502	414	430	420	495	439
LL.M.	3	2	5	2	2	2	4	3
M.B.B.S. (Final)	117	148	106	104	105	122	177	179
Master's Degree in Surgery	..	6	1	2	3	1	..	2
Bachelor's Degree in Hygiene	4	4	3	1	1	2	..	1

## Number of Successful Candidates in the University Examinations—(Contd.)

	1930-31	1931-32	1932-33	1933-34	1934-35	1936-37	1937-38	1938-39
D.O.	2	3	4	..	2	1	1	2
M.D.	7	3	4	..	2	2	4	4
M.AG.	..	2	..	..	..	..	2	..
D.HY.	..	..	..	..	..	..	..	..
D.LITT.	1	..	..	..	..	1	1	1
D.SC.	..	..	..	2	..	1	2	2
B.Sc. (Tech.)	..	..	..	..	..	1	18	22
M.Sc. (Tech.)	..	..	..	..	..	13	..	5
PH.D.	..	..	..	..	..	..	..	11

### Scholarships and Medals

A large number of Endowed Scholarships and Medals is awarded by the University for distinguished proficiency in the several examinations and each of the affiliated Colleges also awards its own Scholarships and Medals. The University Endowment Fund for Scholarship, Prizes and Medals amounts to Rs. 48,27,900 in Government Securities and Port Trust and Municipal Bonds.

### Library, Laboratories, etc.

The University Library, which is under the control of the Library Committee, is open to Fellows of the University, Principals and Professors of Colleges affiliated to the University of Bombay, the University Staff, Graduates of the University, students of affiliated Colleges and such other persons as are admitted by a special order. The Library has 69,562 volumes of which 10,055 volumes were added during the years 1938-41. The University Departments in Economics and Sociology also maintain a library of their own which is growing substantially every year and is becoming a useful centre of research in these subjects.

There are various Hospitals and Laboratories recognized by the University for purposes of practical work in Medicine and Science.

### Provision for Research

There are eight post-graduate research scholarships in the Department of Economics and Sociology, and the University also undertakes the publication of the results of researches. In addition there are four endowed scholarships for research work of which three are tenable in India and one is tenable in a foreign country. The Bombay University Economics Series has been published as well as Lectures on Gujarati Literature by Prof. N. B. Divatia, Diwan Bahadur K. H. Dhruva, Diwan Bahadur K. M. Jhaveri, Mr. K. M. Munshi and Prof. R. V. Pathak, History of Gujarat by Prof. M. S. Commissariat and Pali Text Series by Prof. N. K. Bhagwat, and also Dr. Mackichan's translations of the introduction to two German books, Dr. Garbe's *Bhagavadgita* and Roth's *Nirukta*.

The University also makes grants of varying amounts in aid of the cost of publication of books by various authors.

### Publication and Extension Work

The University has spent a large sum of money during the last few years on the publication of books and by way of grants to authors to meet the expenses of publication. Distinguished

scholars from Europe and elsewhere have been invited to deliver lectures on subjects directly connected with University studies.

### University Bulletin

The University has its own official organ, *The Bombay University Bulletin*. It was started in August 1940, and has been well received by the public. The Bulletin is issued in August, November and March, and contains news of the University and of the Colleges, Schools and other institutions affiliated to or otherwise connected with it, and also of other Universities and of general interest. Its annual subscription is Re. 1, including postage.

### University Journal

The University conducts a Journal having five issues in a year commencing with July and devoted to (a) History, Economics and Sociology, (b) Science, (c) Arts and Law in the cyclic order. The Journal normally contains original contributions, but extracts from theses submitted for the post-graduate examinations of the University may also be published in the Journal. Its annual subscription is Rs. 12.

### Military Training

Military training is not compulsory in the University. Students are encouraged to enrol themselves in the University Training Corps and the number enrolled during the year 1940-41 was over 1,103. The question of introducing a course of military studies in the curriculum is under consideration.

### Associations in the University

The Colleges in the University are scattered over the whole of the Bombay Presidency and it is not therefore practicable to have a Central Association or Associations for the benefit of all University students. Most of the Colleges maintain societies of their own such as Debating Unions, Literary Societies, Historical Societies, Dramatic Societies, College Gymkhanas, and similar associations or societies.

### Residence and Cost of Living

Most of the Colleges affiliated to the University provide residential accommodation for a fair proportion of their students. The approximate cost of living is Rs. 50 per month.

### **Budget: General Fund**

The total budget expenditure for the year 1941-42 has been estimated to be Rs. 15,20,771.

A Provident Fund has been started and subscription to the Fund at the rate of  $6\frac{1}{4}$  per cent. on the monthly salary is obligatory on every whole-time officer, teacher or servant appointed after the 31st March 1925, to a substantive appointment carrying a monthly salary of Rs. 30 or upwards. The University makes a contribution at the rate of  $6\frac{1}{4}$  per cent. on the salary of subscriber at the end of each month and compound interest at the rate of  $4\frac{1}{2}$  per cent. per annum is allowed on the amount standing to the credit of each depositor. On quitting the service of the University, a depositor is entitled to draw out the whole amount standing to his credit in the Fund, provided he has been in the service of the University for at least three years and has been permitted to resign his appointment.

### **Women's Education**

Women are admitted to all the affiliated Colleges on equal terms with men-students. This year the Sophia College for Women, Bombay, has been affiliated to the University for the courses of study leading to the Intermediate Arts examination.

### **Foreign Universities' Information Bureau**

During the year 1939-40 the Bureau received 930 enquiries in writing regarding the various courses of studies abroad as against 1,873 in the previous year and 645 enquiries by personal visits as against 1,185 in the previous year. The number of documents containing the prospectuses and regulations relating to Institutions in the United Kingdom, America and Germany issued from the Office of the Bureau totalled 1,295 as against 2,998 in the previous year and the number of students who applied for them was 957 as against 1,171 in the year 1938-39.

### **Provision for Safeguarding Health, Medical Inspection, Discipline, etc.**

The Syndicate sanctioned in 1928, as an experiment, a tentative scheme for the introduction of compulsory physical training in three Arts Colleges in Poona and for the purpose allotted Rs. 12,070. The scheme worked satisfactorily. The Senate resolved in 1930 to sanction an annual expenditure of Rs. 11,000 for two years for carrying out a scheme for the

physical training of College students. In pursuance of this scheme a Director of Physical Training was appointed and the University held a medical inspection of all the students in its affiliated Colleges with a view to test their capacity to undergo a system of compulsory physical training. As in the mean time, the Senate resolved that physical training of students must be under the control of Principals of Colleges, the consideration of the scheme has been postponed. But a Students' Welfare Committee has been appointed to look after the medical inspection, physical training, hygiene, dietetics, etc., of University students. There is provision for outdoor games like cricket, football, tennis, hockey, etc., in most of the affiliated Colleges; and a large number of students take advantage of the facilities offered in this respect.

### **Inter-Collegiate Sports and Athletic Competitions**

With a view to popularize all sorts of outdoor games among students it was deemed necessary to control and manage Inter-Collegiate Tournaments and Athletic Sports. Having resolved on this, the Syndicate appointed a Sports Board composed of the Principals of the affiliated Colleges in Bombay and of others interested in this activity of the University whose duty is to organize and manage, on behalf of the University, all Inter-Collegiate Tournaments and Athletic Sports, to begin with, in the City of Bombay.

Having found from experience the necessity of extending the activities of the Board of Sports to the other colleges affiliated to the University, the Syndicate have now altered the constitution of the Board and have appointed Local Committees at Poona, Dharwar, Ahmedabad and Karachi in addition to the one at Bombay. Each of these Local Committees will be in charge of Inter-Collegiate Sports and Tournaments pertaining to the Colleges within its jurisdiction and the Board of Sports will be responsible for 'Varsity and Inter-'Varsity Sports and Tournaments.

The Senate has sanctioned a budget grant of Rs. 10,000 towards the expenses of Inter-Collegiate Sports and the Board will distribute this sum among the Local Committees in proportion to the amounts contributed by the Local Committees.

In addition to this amount the Senate has also sanctioned Rs. 2,500 towards the expenses in connection with the Inter-University Cricket Tournament.

## Admission to the University, Courses of Study, Examinations and Degrees

### ADMISSION TO THE UNIVERSITY

Admission to a course of study in the University for the Bachelor's degree in Engineering and Medicine is granted only to those who have passed the Intermediate Science Examination of this University or any other equivalent examination of recognized Universities in a specified group of subjects. Admission to courses of study for other Bachelor's degrees is granted to those who have passed the First Year Arts Certificate Examination in a College affiliated to the University or the Intermediate Arts or Science Examination of a recognized University. Admission to the courses of study for higher degrees is granted, under certain conditions, to graduates of this or of any other recognized University.

### COURSES OF STUDY AND EXAMINATIONS

#### I. ARTS

The University offers in Arts, B.A. (Pass and Honours), M.A. and D.LITT. degrees ; in Science, B.Sc., M.Sc. and D.Sc. degrees ; in Commerce, B.COM. and M.COM. degrees ; in Teaching, B.T. and M.ED. degrees ; in Agriculture, Bachelor's and Master's degrees ; in Engineering, B.E. (Civil, Mechanical and Electrical) and M.E. (Civil, Mechanical and Electrical) degrees ; in Law, LL.B., and LL.M. degrees ; and in Medicine the degrees of M.B.B.S., M.D., M.S., Bachelor of Hygiene, Doctor of Hygiene and the Diplomas in Teaching and Ophthalmology and the PH.D. degree in Arts, Science, Technology and Medicine.

(i) *Intermediate Examination*.—The course of study for this examination extends over two academic years during the first of which candidates are examined by affiliated Colleges in English, a Second Language, Composition, Indian Administration and Mathematics, or World History or Geography and can only proceed to the Intermediate class, if they are certified by their Principals to have carried out satisfactorily the work prescribed by the University for the first two terms in Arts. At the Intermediate Examination held by the University at the end of the second year, candidates are examined in English (two papers of three hours each), a Second Language and Composition (two papers), Economics and Civics (one paper), and Mathematics or Logic (two papers of three hours each). The minimum for a pass is 30 per cent. of the full marks in each head. Candidates who obtain 60 per cent. in the aggregate are placed in the First Class and those who obtain 45 per cent. in the Second Class.



(ii) *B.A. (Pass and Honours)*.—The course of study for B.A. (Pass) examination extends over two academic years subsequent to passing the Intermediate Arts Examination and that for B.A. (Honours), over the same period. Candidates are examined in (1) English Language and Literature, with Composition, and (2) one of the following six groups: (a) Languages, (b) Mathematics, (c) History and Economics, (d) Mental and Moral Philosophy, (e) Physics and Chemistry, and (f) Botany and Zoology.

For the Pass Examination, besides the three papers in Compulsory English, there are two papers in Optional English and two in each of the other languages—Latin, Greek, Sanskrit, Pali, Ardha-Magadhi, Avesta-Pahlavi, Persian, Arabic, Hebrew, German, French and Portuguese. In Mathematics, History and Economics, and Philosophy, there are four papers in each of the subjects, while in each of the two subjects of groups (e) and (f) there are two papers and two practicals. The minimum for a pass is 30 per cent. of the full marks in (i) Compulsory English and (ii) the Optional group, and 30 per cent. in each of the other subjects. In groups (e) and (f), candidates are also required to obtain a minimum of 30 per cent. in all the practical examinations of the group taken together and in group (a) candidates must obtain at least 25 per cent. of the full marks assigned to each language of the group.

For the Honours Examination, there are eight papers in English and Mathematics, seven papers in History and Economics and Philosophy, and seven papers in the Languages group. For the Honours Examination the languages are grouped thus:—

- (A) Latin, Greek, English, German, French, Portuguese.
- (B) Sanskrit, Pali, Ardha-Magadhi, Avesta-Pahlavi, Marathi, Gujarati, Sindhi, Kannada.
- (C) Hebrew, Arabic, Persian, Avesta-Pahlavi, Sindhi, Urdu.

A candidate for Honours may take seven papers (four Pass and Honours) in any one of these languages or may take five papers in any one language (two Pass and three Honours), and two Pass in any other language, belonging to the same group. The Honours Examination in groups (e) and (f) is identical with the Subsidiary B.Sc. Examination in each subject of the group. The minimum for a pass is 30 per cent. in all the papers in Compulsory English taken together and in the four optional papers taken together and 30 per cent. in all the papers of each subject taken together, provided that if a candidate offers more than one language, he must obtain a minimum of 25 per cent. in each language. In groups (e) and (f) candidates are required to obtain also 30 per cent. in the papers and 40

per cent. in the practical examinations in each subject of the group taken together. Candidates who obtain 60 per cent. in the aggregate in all the Honours papers are placed in the First Class and those obtaining not less than 45 per cent. in the Second Class. Those obtaining less than 45 per cent. are, subject to certain conditions, declared to have passed the Pass examination.

(iii) *Master of Arts (M.A.)*.—The course of study extends over two years subsequent to passing the B.A. Examination. A candidate is required to study and be examined in *one* of the following branches, Languages, History, Philosophy, Mathematics, Ancient Indian Culture and Islamic Culture. The examination consists of eight papers in each subject. A thesis may be offered in lieu of the whole examination in the subject of History and Philosophy or in lieu of the four Principal papers in Sanskrit, Pali, Ardha-Magadhi, Persian or Arabic subject to certain conditions. The minimum for a pass in Mathematics is either 40 per cent. in the aggregate or 25 per cent. in each paper and  $37\frac{1}{2}$  per cent. in the aggregate, and in other subjects, it is one-fourth of the full marks in each paper and three-eighths in the aggregate. In Languages a candidate must obtain 25 per cent. in each of the eight papers, 30 per cent. in the total of two papers in his subordinate language and 40 per cent. in the total of the six papers in the principal language. Candidates who obtain 65 per cent. in the aggregate are placed in the First Class and those who obtain 50 per cent. in the Second Class.

## II. SCIENCE

(i) *Intermediate Examination*.—The conditions of admission to this examination are similar to those for the Intermediate Examination in Arts except that the subjects for the First Year are English, Composition or a paper in French or German, Physics, Chemistry, Biology and Mathematics and a candidate is required to study and be examined in English Prose and Composition (Section A, English Prose with Text), and Section B: (a) Composition in English or in a Modern Indian Language or (b) a paper in French or German and Physics (two papers and a practical), Chemistry (two papers and a practical), and Mathematics (two papers) or Geology or Biology (two papers and a practical). For a pass, a candidate must obtain 33 per cent. of the total marks in Mathematics, 33 per cent. in each paper and in each practical examination in other subjects and 30 per cent. in English Prose and Composition. Candidates who obtain 60 per cent. in the aggregate are placed in the First Class and those obtaining 45 per cent. in the Second Class.

(ii) *Bachelor of Science (B.Sc.)*.—The course extends over two years subsequent to passing the Intermediate Examination in Science. Candidates may take any two of the following subjects: Mathematics, Physics, Chemistry, Botany, Geology, Zoology, Animal Physiology, Anatomy and Embryology, Microbiology and Experimental Psychology. Of the selected subjects, one will be a principal subject and the other subsidiary. At the examination, papers are set as follows:—

Subject	As a Subsidiary Subject	As a Principal Subject
Mathematics	4 papers of three hours each	8 papers of three hours each
Physics	2 papers and 2 practical examinations*	4 papers and 4 practical examinations
Chemistry	2 papers and 2 days' practical examination*	4 papers and 3 days' practical examination
Botany	2 papers and 2 practical examinations*	4 papers and 4 practical examinations
Geology	2 papers and 2 practical examinations	4 papers and 3 practical examinations
Zoology	2 papers and 2 practical examinations*	4 papers and 4 practical examinations
Animal Physiology	2 papers and 2 practical examinations	3 papers, 3 practical examinations and an oral examination
Anatomy and Embryology	2 papers and 2 practical examinations	3 papers, 3 practical examinations and an oral examination
Microbiology	2 papers, 2 practical examinations and an oral examination	3 papers, 3 practical examinations and an oral examination
Experimental Psychology	(As a principal subject only)	3 papers and 3 practical examinations

\* Same as for the B.A. (Hons.) Examination.

For a pass, candidates must obtain in each subject 33 per cent. in the papers taken together, and in the practical examination taken together, or in Mathematics in all the papers taken together. Successful candidates who obtain 60 per cent. in their principal subject and 45 per cent. in the subsidiary subject are placed in the First Class and those who obtain 48 per cent. in the principal subject and 40 per cent. in the

subsidiary subject are placed in the Second Class. Successful candidates who obtain 48 per cent. of the marks in the principal and the subsidiary subjects taken together are placed in the Second Class if they obtain 45 per cent. in the principal subject, and those who obtain 60 per cent. of the total marks in the principal and subsidiary subject taken together are placed in the First Class, if they obtain 55 per cent. in the principal subject. A candidate who secures 66 per cent. in the principal subject is declared to have passed with distinction.

(iii) *Master of Science (M.Sc.)*.—Bachelors of Science of this or of certain other recognized Universities are admitted to the course of study for M.Sc. Degree extending over two years. Candidates must offer one of the following branches: Mathematics, Physics, Chemistry, Botany, Zoology, Geology and Animal Physiology.

The M.Sc. Degree may be taken by research alone or by written examination and practical (except in Mathematics) or by research and examination combined. A candidate may submit a thesis which may be accepted in lieu of the whole or a part of the examination.

Every candidate for the degree by thesis is required to satisfy the Examiners in a paper containing a passage or passages connected with the branch of Science taken by him, to be translated from French or German into English. The language examination must be passed before the presentation of the thesis, or in the case of candidates not offering a thesis, before the submission of the application for admission to the regular examination.

The examination in Mathematics is the same as at the M.A. Examination. There are four papers and four practical examinations in Physics, four papers and at least four days' practical examination in Chemistry, and three papers and at least three days' practical examination in each of the subjects Botany, Zoology and Geology.

Successful candidates are divided into those who pass and those who pass with distinction.

### III. COMMERCE

(i) *Intermediate Examination*.—The course of study extends over two academic years subsequent to passing the Matriculation Examination, at the end of the first of which candidates are examined by Colleges in the subjects prescribed by the University for the first two terms in Commerce. At the Intermediate Examination, Candidates will be examined in English (two papers), Elements of Economics (one paper),

Accounting (one paper), Commerce (one paper), and Administration (one paper or Salesmanship and Publicity or Mathematics) and Composition in English, or French or German or a paper in a modern Indian language (one paper of 1½ hour's duration). For a pass, candidates must obtain 40 per cent. in each subject.

Successful candidates who obtain 60 per cent. in the aggregate are placed in the First Class and those who obtain 50 per cent. in the Second Class.

(ii) *Bachelor of Commerce (B.Com.)*.—The course extends over two years subsequent to passing the Intermediate Examination in Commerce of this University. Candidates will be examined in (1) English (one paper and an oral examination), (2) Business Organization (one paper), (3) Mercantile and Industrial Law (one paper), (4) Trade and Statistics (one paper), (5) Indian Currency and Banking (one paper), (6) Modern Economic Development, and (7) *one* of the following special subjects (three papers): Advanced Accounting and Auditing, Advanced Banking, Actuarial Science, the Organization of the Indian Cotton Industry, Economics of Transport.

The minima for pass and class are the same as for the Intermediate Examination.

(iii) *Master of Commerce (M.Com.)*.—Bachelors of Commerce of this University only who are of at least two years' standing are allowed admission to the examination for the M.Com. Degree. The examination comprises two parts: Part I—a thesis on a problem relating to Indian Commerce, Industries and Finance, or Transport; Part II—a written examination in four subjects selected from the following: (1) Economics of Agriculture with special reference to India, (2) The Organization of Industries of India, (3) Corporation Finance, (4) The Organization of Markets, (5) Foreign Exchanges and (6) International Banking. Exemption from the whole or a part of the written examination is granted under certain conditions and no candidate is admitted to Part II until his thesis has been accepted and approved as qualifying for Part I of the Examination.

One paper will be set in each of the subjects of the written examination. The minimum for a pass in Part III is 30 per cent. in each paper and 40 per cent. in the aggregate.

#### IV. TEACHING

*Diploma in Teaching*.—A candidate who has passed the Matriculation Examination of the University of Bombay or an examination recognized as equivalent to it, is allowed to appear for the examination for the Diploma in Teaching, provided he

has kept four terms (each of 65 days) at a College affiliated to this University for the said Diploma and have completed the prescribed course of practical work to the satisfaction of the head of his college. Candidates who have passed the Inter-Arts, Inter-Science and Inter-Commerce can appear for the said Diploma after keeping two terms. The examination consists of two parts.

Part I (Theory) : Six papers as shown below:—

<i>Section A:</i> Theory of Education (three papers)	{ (a) Elementary Principles of Education. (b) Methods—General and Special. (c) School Organisation (including the Elements of Hygiene) and General knowledge of the Educational Administration of the Bombay Presidency.
<i>Section B:</i> School Subjects (three papers)	{ (d) English (F.Y.A. Standard). (e) Modern Indian Language:— Marathi, Gujarati, Kannada, Sindhi, Urdu or Hindi; or an Advanced Course in English (I.A. Standard). (f) One of the following:— Indian History, Geography, Mathematics, General Science, Classical Languages, French, German, Portuguese.

In the paper of Methods—General and Special—under Section A, candidates shall answer questions on the Methods pertaining to the subjects selected by them for Part II.

Part II (Practical) : The teaching ability of candidates to be judged by a test in two lessons in school subjects selected by the candidates from (d), (e) and (f) above. The subjects selected by candidates shall be the same as those selected by them as cultural subjects under Section B, Part I, of the Examination.

Each paper in Part I, shall carry 100 marks and each lesson in Part II, shall carry 50 marks. For practical work done by the candidate during his period of training, marks up to a maximum of 100 (half the marks allotted for Part II), shall be assigned by the Professor of Education in the College in which the candidate has been studying. The total marks shall be 600 for Theory, 200 for Practical.

The pass percentage is 40 per cent. in each Section separately for Parts I and II and 65 per cent. for Part II with distinction.

*Bachelor of Teaching.*—Graduates of this or of any other recognized University who have (i) kept two terms (the first and the second) of lectures on the Theory and Practice of Education in a Training College affiliated to this University for the purposes of the B.T. Degree, and (ii) completed a course of practical work, extending over two school terms to the satisfaction of the Head of the Institution in which the candidate is studying. The examination is held in two parts: Part I—Written Examination and Part II—Practical Examination.

Part I of the Examination consists of written papers in the following subjects: The Principles of Education (one paper), the History of Education (one paper), the Practice of Education (one paper), Special Methods (one paper), and Educational Experiment (one paper).

In Part II of the Examination, candidates will be tested in their practical skill in class management and class teaching. Each candidate will be required to give lessons in two special subjects selected by him under Part I.

To pass the Examination in either Part I or Part II, a candidate must obtain not less than 40 per cent. of the total number of marks for the said Part.

## V. AGRICULTURE

(i) *First Year Examination in Science (Agriculture).*—The course of study extends over two terms, *i.e.*, one academic year after the passing of the First Year Science Examination or an equivalent examination, candidates will be examined in (1) Agriculture (2 papers and a practical), (2) Chemistry (two papers and a practical), (3) General Zoology (one paper and a practical), and (4) Mathematics and Physics (two papers and a practical). The minimum for a pass is 40 per cent. in each subject and in each practical.

(ii) *Second Year Examination in Science (Agriculture).*—The course of study extends over two terms, *i.e.*, one academic year after passing the First Year Science (Agriculture) Examination. Candidates will be examined in (1) Agriculture (two papers and a practical), (2) Chemistry (two papers and a practical), (3) Botany (one paper and a practical), and (4) Agricultural Engineering (one paper and a practical). The minimum for a pass is 40 per cent. in each subject and in each practical.

(ii) *Bachelor of Science (Agriculture).*—The course extends over two terms (one academic year) subsequent to

passing the Second Year Examination in Science (Agriculture). Candidates will be examined in the following subjects: (1) Agriculture (three papers and two practicals), (2) Horticulture (one paper and a practical), (3) Plant Pathology (one paper and a practical), (4) Entomology (one paper and a practical), and (5) Agricultural Economics (one paper).

In order to pass, candidates must obtain 40 per cent. in each subject and in each practical examination candidates obtaining 50 per cent. of the total on the aggregate of three years will be considered when passed with Honours.

(iii) *Master of Agriculture*.—Each candidate for this Degree must be a Graduate or a Licentiate in Agriculture of this University of not less than 3 years' standing and must have been engaged in the practice of Agriculture or work of research in connection with Agriculture for a period of at least 3 years after receiving the Degree of Bachelor or Licentiate in Agriculture. Each candidate must submit a report of work or research of an original character in the Agricultural field subsequent to his graduation and must if the examiners so desire, submit himself to an oral examination.

## VI. ENGINEERING

A candidate for the B.E. Degree must have passed the Intermediate Examination in Science of this or of any other recognized University in the group of Mathematics, Physics and Chemistry or must have passed the Intermediate Arts Examination with Mathematics as the Optional subject and the B.A. Examination with Physics and Chemistry as the Optional group. Candidates will be required to pass three examinations: The First Examination in Engineering: the Second Examination in Engineering (Civil or Mechanical); and the B.E. Degree Examination (Civil or Mechanical).

(i) *The First Examination in Engineering*.—The course of study extends over one year and includes Mathematics, Mechanics, Heat Engines, Surveying, Drawing, Workshop Practice, Engineering Materials and Electrical Engineering. Candidates will be examined in all subjects except Workshop Practice. One paper will be set in each of the subjects of examination. The minimum for a pass is 45 per cent. of the aggregate, 33 per cent. in Mathematics, and 40 per cent. in each of the other subjects. Successful candidates who obtain 60 per cent. in the aggregate are placed in the First Class.

(ii) *The Second Examination in Engineering (Civil, Mechanical and Electrical)*:

(a) *Civil*.—The course of study for this examination covers one year after passing the F.E. Examination and candidates



will be required to study and be examined in Calculus, Strength of Materials, Building Constfuction, Civil Engineering, Surveying, Drawing and Design, and Geology. They must also complete a prescribed course in Materials Testing Laboratory. One paper will be set in each of the subjects of examination except Drawing, the examination in which is Practical, Oral and Sketching. In Geology and Surveying, there will also be a practical examination. In order to pass, a candidate must obtain 40 per cent. in each subject (in the written and practical examinations separately), and 45 per cent. in the aggregate. Those who obtain 60 per cent. in the aggregate are placed in the First Class.

(b) *Mechanical and Electrical*.—The duration of the course of study for this examination is one year after passing the F.E. Examination. Candidates will be examined in Strength of Materials, Calculus, Prime Movers, Electrical Engineering, Drawing, Workshop Practice and Elements of Engineering Economics. The Examination in Drawing comprises Practical, Oral and Sketching and there will be a Practical Examination in Workshop Practice. •One paper will be set in each of the other subjects and there will be a Practical Examination in Prime Movers. The minima for pass and class are the same as for the S.E. (Civil) Examination.

(iii) *B.E. Degree Examination (Civil, Mechanical and Electrical)* :

(a) *Civil*.—Candidates who have passed the S.E. (Civil) Examination of this University (and kept at least two terms in a recognized School or College in Civil Engineering) are admitted to the B.E. (Civil) Examination. During the two terms, they are required to study the following subjects: Theory of Structures, Reinforced Concrete and Structural Design, Civil Engineering (Paper I), Civil Engineering (Paper II), Elements of Engineering, Technical Essay and Précis, Estimating (College Certificate only), and Drawing and Design. At the examination, one paper will be set in each of the subjects except Drawing. Candidates are further required to obtain a certificate in Estimating.

In order to pass a candidate must obtain 45 per cent. in the aggregate and 40 per cent. separately in the written, practical or oral examination in each subject. Successful candidates who secure 66 per cent. of the aggregate are placed in the First Class.

(b) *Mechanical*.—The conditions of admission to this examination are the same as for B.E. (Civil) Examination except that candidates should have passed the S.E. (Mechanical) Examination. Candidates are required to study and be examined in the following subjects: Strength of Materials (one paper),

Prime Movers (two papers), Hydraulics and Hydraulic Machinery (one paper), Electrical Engineering (one paper), Drawing (Practical, Sketching and Oral), Workshop Appliances, Practice (one paper and a practical) and Technical Essay and Précis. The minima for pass and class are similar to those of B.E. (Civil) Examination.

(c) *Electrical*.—The conditions of admission to this Examination are the same as those for B.E. (Civil) Examination except that candidates should have passed the S.E. (Mechanical and Electrical) Examination. The candidates are required to study, and be examined in Strength of Materials, Prime Movers, Hydraulics and Hydraulic Machinery, Technical Essay and Précis, Electrical Installations and Power Supply, Traction and Radio-Communication, Electrical Engineering, and Drawing and Design. The minima for pass and class are similar to those of B.E. (Civil) Examination.

(iv) *Master of Engineering (Civil, Mechanical or Electrical)*.—The examination for this Degree is open to Licentiates or Bachelors of Engineering of this or of any other recognized University, who have practised as Civil, Mechanical or Electrical Engineers for at least three years after receiving their Degree. The Degree may be obtained in two ways: (i) by submitting, with due authentication, a report of Engineering work done by the candidate, or (ii) by submitting himself to an examination in one of the following subjects: (1) Building Materials and Construction and Structural Engineering, (2) Bridges and Railways, (3) Hydraulics and Irrigation, (4) Municipal Engineering and Town Planning, (5) Steam Engine and Turbine, Construction and Design, (6) Internal Combustion Engine, Construction and Design, (7) Machine Tools, Construction and Design, (8) Hydraulic Machinery, Construction and Design, (9) Generation, Transmission and Distribution of Electrical Energy, (10) Electrical Power and Lighting, (11) Design of Electrical Machinery Apparatus and Instruments, or any other branch of Engineering approved by the Board of Studies.

## VII. CHEMICAL TECHNOLOGY

*Degree of B.Sc. (Tech.)*.—The degree may be taken in either Textile Chemistry or Chemical Engineering, each course of study extending over two years. The courses are open to candidates who have passed the B.Sc. Degree examination of this University in the first or second class with Chemistry as principal and Physics as subsidiary subjects, or other equivalent examination. As a part of his course, each student is required to work for at least three months in an approved textile mill, chemical factory or mechanical workshop and to submit satisfactory reports.

*Syllabuses of Courses*

## FIRST YEAR

*Textile Chemistry*.—German. Chemical Engineering (Introductory). General Chemical Technology. Industrial Organisation and Industrial Relations. Colloids. Descriptive Engineering. Fuels. Plant employed in the Dyestuff Industry. General Technology of Oils, Fats and Waxes. Manufacture of Yarn and Cloth. Chemistry of Intermediates and Dyes (Introductory). Chemistry of Textile Fibres and Dyeing.

*Practical Work*.—Engineering Drawing, Workshop Practice. Fuel Laboratory. Technical Chemistry Laboratory. Experimental Dyeing.

*Chemical Engineering*.—German. Chemical Engineering (Introductory). General Chemical Technology. Industrial Organisation and Industrial Relations. Colloids. Descriptive Engineering. Fuels. Plant employed in the Dyestuff Industry. General Technology of Oils, Fats and Waxes. Mathematics. Principles of General Engineering.

*Practical Work*.—Engineering Drawing. Workshop Practice. Fuel Laboratory. Technical Chemistry Laboratory. Chemical Engineering Laboratory.

## SECOND YEAR

*Textile Chemistry*.—Construction of Works. Costing and Estimating. Chemistry of the Colouring Matters. Chemistry of Textile Fibres and Dyeing (Advanced). Technology of Dyeing and Printing. Technology of Bleaching. Mercerising and Finishing. Design applied to Textile Printing.

*Practical Work*.—Technical Chemistry Laboratory. Dye-house. Experimental Dyeing Laboratory. Practical Microscopy.

*Chemical Engineering*.—Construction of Works. Costing and Estimating. Advanced Chemical Engineering.

*Practical Work*.—Drawing Office. Chemical Engineering Laboratory. Workshop Practice.

*M.Sc. (Tech.) and Ph.D.*—These degrees in "Chemical Technology" are obtainable by research, and are only open to candidates who have passed the B.Sc. (TECH.) Degree examination of this University.

## VIII. LAW

(i) *Bachelor of Laws (LL.B.)*.—The course of study is open to candidates who have passed the Intermediate Arts, Science or Commerce Examination of this University or an equivalent examination of another University or Board of

Intermediate Education, and have thereafter kept two terms in a Law College affiliated to this University. Candidates will be required to pass two examinations, the First LL.B. Examination held at the end of the first year, and the Second LL.B. Examination held at the end of the second year.

For the First Examination, candidates are required to study and be examined in the following subjects: Roman Law and Broom's Legal Maxims (selected portions), Jurisprudence, Constitutional Law, English and Indian (General Principles), Torts, Crimes and Criminal Procedure, General English, consisting of (1) an essay and précis writing, and (2) two modern text-books in prose to be prescribed by the Academic Council on the recommendation of the Board of Studies in Law. One paper will be set in each of these subjects.

For the Second LL.B. Examination, candidates must study and be examined in the following subjects:

#### *Group A*

Hindu Law, Muhammadan Law and the Indian Succession Act Equity with special reference to Trusts and Specific Relief.

#### *Group B*

The Law of Evidence, Civil Procedure and Limitation; The Law of Property, Easements and Land Tenures; The Law of Contracts, including Partnership, Sale of Goods; Negotiable Instruments and General Principles of Mercantile Law; Company Law and the Law of Insolvency. Candidates may take Groups A and B together or separately. One paper will be set in each of these subjects.

In order to pass either of the Examinations, a candidate must obtain one-third of the full marks in each paper and one-half of the aggregate. Candidates who obtain two-thirds of the total marks obtainable will be placed in the First Division.

(ii) *Master of Laws (LL.M.)*.—Admission to the courses of study for this Degree is granted to Law Graduates of this or of certain other recognized Universities and the course extends over two academic years in the case of students passing the Second LL.B. Examination under the old rules and three academic years in the case of students passing the Second LL.B. Examination under the new rules. Every candidate for the Degree of LL.M. is required (1) to register himself as a post-graduate student of the University, (2) to get himself enrolled as a regular student of a Law College affiliated to the University and (3) to report himself daily to the Principal of the College. Candidates are required to study and be examined in any *one* of the following four branches:

- Branch I** .. (1) Jurisprudence (1 paper), (2) Roman Law (1 paper), (3) International Law (Public and Private) (1 paper), (4) Principles of Legislation (1 paper), (5) Constitutional Law (British and Indian) (1 paper), and (6) Essay (1 paper).
- Branch II** .. (1) Hindu Law (3 papers) *or* Muhammadan Law (3 papers). (2) Testamentary and Intestate Succession (excluding Hindu and Muhammadan Law) (1 paper), (3) Marriage, Divorce and Guardianship (excluding Hindu and Muhammadan Law) (1 paper), and (4) Essay on Hindu or Muhammadan Law (1 paper).
- Branch III** .. (1) Real Property, etc. (2 papers), (2) Principles of Equity with special reference to the Law of Trusts and Specific Relief (1 paper), (3) The Law of Easements and Prescription (1 paper), (4) Customary and Statute Law relating to Land Tenure in British India (1 paper), and (5) Essay (1 paper).
- Branch IV** .. (1) The Law of Contracts (including Sale of Goods) (1 paper), (2) Companies and Insolvency (1 paper), (3) Mercantile and Maritime Law (1 paper), (4) The Law of Torts (1 paper), (5) Law of Crimes (1 paper), and (6) Essay (1 paper).

The examination in each branch consists of six papers. To pass the examination, candidates must obtain 50 per cent. in each of the papers. Those who obtain 66 per cent. of the aggregate are placed in the First Class.

## IX. MEDICINE

(i) *Degrees of Bachelor of Medicine and Bachelor of Surgery (M.B.B.S.)*.—For admission to a course of study for these Degrees, a candidate must have passed the Intermediate Examination in Science of this University in the group of Physics, Chemistry and Biology or an equivalent examination of any other recognized University. Candidates for these degrees are required to pass three examinations:—(i) The First

M.B.B.S. Examination, (ii) The Second M.B.B.S. Examination, and (iii) The Third M.B.B.S. Examination.

(a) *The First M.B.B.S. Examination.*—Before presenting themselves for this examination, candidates must have attended complete courses in (i) Human Anatomy and Embryology, (ii) Physiology, (iii) Organic Chemistry and Bio-Physics. They will be examined in Anatomy including Embryology, Descriptive and Practical, and Physiology including Histology and Chemical and Experimental Physiology and in Organic Chemistry and Bio-Physics. The examination consists of two written papers and a Practical Examination or an oral test or both in each subject. For a pass, a candidate must obtain in each subject 50 per cent. in the practical test, 40 per cent. in the written test and 50 per cent. in the written and practical tests put together. Those who obtain 66 per cent. in the aggregate are placed in the First Class.

(b) *The Second M.B.B.S. Examination.*—Candidates will be examined in the following subjects: Materia Medica, Pharmacology and Practical Pharmacy. The examination consists of one written paper and one practical or oral examination in each subject. The passing standard is the same as at the First M.B.B.S. Examination.

(c) *The Third M.B.B.S. Examination.*—Before presenting himself for this examination, each candidate must have attended the course in Medicine, Surgery, Midwifery and Diseases of Women, Ophthalmology, Pathology, Forensic Medicine and Preventive Medicine. He must also have received systematic and clinical instruction in Diseases of the Ear, Nose and Throat, Disease of the Skin, Radiology, Dentistry, Tuberculosis, Venereal Diseases and Anæsthetics. He must further have attended the prescribed Hospital Practice.

Candidates are examined in (i) the Principles and Practice of Medicine and Therapeutics, including Forensic and Preventive Medicine, Skin Diseases and Anatomy and Physiology as applied to Medicine, (ii) the Principles and Practice of Surgery, including Ophthalmology, Diseases of the Ear, Nose and Throat, and Anatomy and Physiology as applied to Surgery, and (iii) Midwifery and Gynæcology.

The subjects of examination are divided into two groups which may be taken together or separately.

The examination consists of written papers, an oral and practical and a clinical examination in each subject. For a pass, a candidate must obtain 50 per cent. in the aggregate of the Clinical, Practical and Oral tests, 40 per cent. in the Written and 50 per cent. in the Written and Clinical, Oral and Practical

taken together. Those who obtain 66 per cent. of the aggregate are placed in the First Class.

(ii) *Diploma in Public Health*.—Candidates who have passed not less than a year previously the M.B.B.S. Examination of this or any other recognized University, or who have taken the Degree of L.M. & S. of this University only, are admitted to this examination.

The examination shall be divided into two Parts, Part I and Part II. A candidate must pass in all subjects of Part I before being admitted to the examination for Part II. A candidate may appear in Part I (but not Part II) of the examination on completion of a year after graduation, provided that after passing any of the qualifying examinations mentioned above he has attended during a period of six months courses in:—

(1) Bacteriology and Parasitology (including Medical Entomology and Protozoology, Helminthology and Immunology) especially in their relation to diseases of man and to those diseases of the lower animals transmissible to man. (Duration of the course: at least 140 hours.)

(2) Chemistry, Physics, Radiology, Electrolgy, Meteorology and Climatology in relation to Public Health. (Duration of the course: at least 140 hours.)

A candidate can appear in Part II after producing the certificates to the effect that (i) he has passed Part I of the examination, (ii) he has during six months been engaged in acquiring practical knowledge of the duties, routine and special, of Public Health Administration under the supervision of a Medical Officer of Health and has received from this Officer or other responsible Officer, during periods of not less than three hours each on sixty working days, practical instruction in the following subjects in a recognised institution: (a) Maternity and Child Welfare Service; (b) Health Service for Children of School age; (c) Venereal Disease service; (d) Tuberculosis service; (e) Industrial Hygiene; (f) Inspection and Control of Food, including meat and milk. [Instruction in (a) to (f) should include attendance at the Centres, Clinics, Institutions and premises concerned.]

Certificates of having received the prescribed instruction in Public Health Administration must be given by the Health Officers of Bombay, Calcutta or Madras. The Laboratory instruction and practical knowledge of Public Health Administration given in any part of the United Kingdom and approved by the General Medical Council will be accepted.

(iii) he has received during not less than 80 hours from a Teacher approved by the University, instruction in the following subjects: The Principles of Public Health and Sanitation—

30 hours, Epidemiology and Vital Statistics—20 hours, Sanitary Law and Administration—20 hours, Sanitary Construction and Planning—10 hours (the numbers indicate the approximate proportion of hours to be devoted to each subject.)

### PART I

Part I will consist of two papers and a practical examination in the Laboratory work and *viva voce* examination, the contents of the papers being distributed as under:

Paper I—Physics, Radiology, Electrolgy, Meteorology, Climatology and Chemistry.

Paper II—Bacteriology, Parasitology, Protozoology, Helminthology and Immunology.

### PART II

Part II will consist of two papers as under, a practical examination, a report on subjects connected with outdoor sanitary work and a *viva voce* examination:

Paper I—Epidemiology and Endemiology and Vital Statistics.

Paper II—Practical Sanitation and Sanitary Law.

Soon after the conclusion of the Examination, the Examiners will report whether the candidates have passed or failed.

(iii) *Degree of Doctor of Medicine (M.D.)*.—The Examination for this Degree is open to Bachelors of Medicine and Bachelors of Surgery of this or of any other recognized University and to Licentiates of Medicine and Surgery of this University only, who have been engaged in continuous practice of the Medical profession for at least five years one of which must be spent in the post-graduate study of the particular branch in which he offers the examination, at a recognized Hospital or Institute. The period may be reduced under special conditions.

Candidates will be examined in one of the following Branches: Branch I—comprising (a) Medicine, including Mental Diseases and Medical Applied Anatomy (one paper), (b) Tropical Medicine (one paper), (c) Pathology including Bacteriology (one paper), (d) an essay on one of the two subjects in Medicine (one paper), and a clinical, an oral and a practical examination; Branch II—Pathology comprising (a) Pathology including Bacteriology (two papers), (b) Medicine (one paper), (c) an essay on one of the two subjects in Pathology including Bacteriology (one paper), (d) a laboratory examination including an oral, a practical and a *post mortem* examination; Branch III—comprising (a) Midwifery including the Surgical Anatomy of the Pelvis (one paper), (b) Diseases of Women and Children, including Antenatal Diseases (one paper), (c) one paper in Pathology including Bacteriology, (d) an essay on one of the two subjects in Midwifery and



Diseases of Women, (e) a clinical, an oral and a practical examination. A candidate may submit a thesis embodying the results of his own independent research in the branch in which he appears. The thesis may exempt him from a part or the whole of the written examination only.

The Examiners will report whether the candidates have failed or passed or passed with distinction.

(iv) *Degree of Master of Surgery*.—The conditions of admission to this examination are the same as for the M.D. Examination. Candidates will be examined in Surgery (two papers), Pathology including Bacteriology and Surgical Anatomy (one paper), an essay on one of the two subjects in Surgery including the History of Surgery (one paper). There will also be a Clinical Examination with operations on the cadaver, and an oral and practical examination with examination of Pathological specimens and X-ray Skiagrams. The Examiners will report whether a candidate has passed or failed or has passed with distinction.

A thesis may be submitted on the same conditions as at the M.D. Examination.

(v) *Degree of Doctor of Hygiene*.—The examination for this Degree is open to candidates who have passed at least two years previously the examination for the Degree of Bachelor of Hygiene of this University or an equivalent examination of any other recognized University. Further each candidate must have attended outdoor and indoor work of a Medical Officer of Health for one year under the supervision of an approved Health Officer.

The examination is conducted as follows:—(i) Public Health—three papers and a practical and an oral examination; (ii) Sanitary Laws of England and India—one paper and an oral examination. The scope of this examination is fuller than that of the Degree of Bachelor of Hygiene, and candidates must show competent knowledge of Sanitary Science in all its branches.

(vi) *Diploma in Ophthalmology*.—The examination for this Diploma is open to Graduates in Medicine and Surgery of this or of any other recognized University who have been engaged for at least one year in the post-graduate study of Ophthalmology at a recognized Hospital or Institution. Further, candidates must produce certificates of having attended (a) the Clinical Practice of a recognized Ophthalmic Hospital for at least twelve months, and (b) courses of study in Optics, Anatomy, Physiology of the Eye, Pathology, Bacteriology and Ophthalmic Operative Surgery.

The examination is partly written and partly *viva voce*. There are four papers in the written examination. The Examiners will report whether candidates have failed or passed.

## Fees for Admission to Examinations

	Rs.
Matriculation Examination .. ..	15
Intermediate Examination in Arts and Commerce ..	25
B.A. Honours Examination .. ..	50
B.A. Pass Examination .. ..	40
M.A. Examination .. ..	75
B.COM. Examination .. ..	50
M.COM. Examination .. ..	100
T.D. Examination (Part I) .. ..	15
"      (Part II) .. ..	10
"      (Both Parts) .. ..	25
B.T. Examination (either Part) .. ..	15
B.Sc. Examination (Principal Subjects) .. ..	40
B.Sc. Examination (Subsidiary Subjects) .. ..	25
B.Sc. Examination (Principal and Subsidiary Subjects)	50
B.Sc. (TECH.) Examination .. ..	100
M.Sc. Examination .. ..	100
M.Sc. (TECH.) Examination .. ..	100
M.Sc. Translation Test .. ..	25
F.Sc. (Agriculture) Examination .. ..	30
S.Sc. (Agriculture) Examination .. ..	30
B.Sc. (Agriculture) Examination .. ..	50
M.Sc. (Agriculture) Examination .. ..	100
First Examination in Engineering .. ..	30
Second Examination in Engineering (Civil, Mechanical and Electrical) .. ..	30
B.E. Examination (Civil, Mechanical and Electrical) ..	50
M.E. Examination .. ..	100
First I.L.B. Examination .. ..	30
Second I.L.B. Examination .. ..	50
I.L.M. Examination .. ..	150
First M.B.B.S. Examination .. ..	30
Second M.B.B.S. Examination .. ..	15
Third M.B.B.S. Examination* .. ..	45
D.P.H. Examination (whole or part) .. ..	75
M.D. Examination† .. ..	200
M.S. Examination‡ .. ..	200
D.I.V. Examination .. ..	200
Examination for a Diploma in Ophthalmology ..	200
PH.D. Examination .. ..	100
D.LITT. Examination .. ..	200
D.Sc. Examination .. ..	200

\* Rs. 25 for each group taken separately.

† Rs. 100 for an M.D. who appears for a different Branch and for an M.S.

‡ Rs. 100 for an M.D.

# **Calcutta University**

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## **Introductory (Historical) and Character of the University**

In July 1854, the Court of Directors sent out a Despatch to the Governor-General of India in Council, directing the organization of Universities of Calcutta, Madras and Bombay. In pursuance of that Despatch, the University of Calcutta was founded on the 24th January 1857. As regards its constitution, the University adopted, in the first instance, the form, government and regulations of the University of London, and gradually, as necessity arose, changed and adapted them to the requirements of its own students.

The University of Calcutta was incorporated by an Act of the Legislative Council (Act No. II of 1857) for the purpose of ascertaining by means of examination the persons who had acquired proficiency in the different branches of Literature, Science and Art, and of rewarding them by academical degrees.

A supplementary Act was passed in 1860 (Act No. XLVII of 1860) giving the power of conferring Degrees other than those provided for in the former Act.

An additional Act was passed in 1884 (to amend Act No. XXI of 1875, which authorized the University of Calcutta to grant University Degrees) giving the University the power of conferring the Degrees of Doctor in the Faculty of Law upon any person, on the ground of his eminent position and attainments, without requiring him to undergo any examination. The first honorary Degree of D.L. granted by the University was conferred upon His Majesty the King-Emperor late Edward VII (then H.R.H. the Prince of Wales) at a convocation held on 3rd January 1875.

In January 1902, His Excellency the Governor-General of India in Council appointed a Commission "to inquire into the condition and prospects of the Universities established in British India; to consider and report upon any proposals which have been, or may be, made for improving their constitution and working and to recommend to the Governor-General in Council such measures as may tend to elevate the standard of University teaching, and to promote the advancement of Learning." The Commission submitted their Report on the 9th of June 1902. An Act amending the Law relating to the

Universities in British India (Act VIII of 1904), passed by the Governor-General of India in Council, received the assent of the Governor-General on the 24th of March 1904, and it came into force on the 1st of September 1904. Act VIII of 1904 was amended by Act II of 1905, Act XI of 1911 and Act VII of 1921. Under Act II of 1857, the University was only an examining body. Under Section 3 of Act VIII of 1904, the University has been empowered to make "provision for the instruction of students, to appoint University Professors and Lecturers, to hold and manage educational endowments, to erect, equip and maintain University Libraries, Laboratories and Museums, to make regulations relating to the residence and conduct of students, and to do all acts consistent with the Act of Incorporation to this Act, which tend to the promotion of study and research".

### Officers and Staff of the University

#### CHANCELLOR

His Excellency Sir John Arthur Herbert, G.C.I.E.

#### VICE-CHANCELLOR

The Hon'ble Lt.-Colonel Sir Mohammad Aziz-ul-Huque,  
Kt., C.I.E., B.L., M.L.A., Khan Bahadur.

#### REGISTRAR

Jogeschandra Chakravorti, Esq., M.A.

#### DEANS

Arts	.. The Hon'ble Dr. Syamaprasad Mookerjee, M.A., B.L., D.Litt., Barister-at-Law, M.L.A.
Science	.. Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D., F.N.I., F.R.A.S.B., F.S.M.F. (Bengal).
Law	.. The Hon'ble Mr. Justice Charuchandra Biswas, C.I.E., M.A., B.L.
Medicine	.. M. N. Bose, Esq., M.B., C.M. (Edin.), F.S.M.F. (Bengal).
Engineering	.. Prabhatnath Banerjee, Esq., M.A. (Cantab.), M.I.E. (India).

**University Professors****SANSKRIT**

MM. Vidhusekhara Bhattacharyya, Shastri, Asutosh Professor.

**ISLAMIC STUDIES**

Dr. Muhammad Zubiar Siddiqi, M.A., B.L., Ph.D. (Cantab.),  
Asutosh Professor.

**MEDIÆVAL AND MODERN INDIAN HISTORY**

Dr. Surendranath Sen, M.A., Ph.D., B.Litt. (Oxon.), Asutosh  
Professor (*on leave*).

**ANCIENT INDIAN HISTORY AND CULTURE**

Dr. Hemchandra Rai Chaudhuri, M.A., Ph.D., Carmichael  
Professor.

**ISLAMIC HISTORY AND CULTURE**

*Vacant.*

**FINE ARTS**

Shahid Suhrawardy, Esq., B.A. (Oxon.), Bageswari Professor.

**PHILOSOPHY**

Sir Sarvapalli Radhakrishnan, Kt., M.A., D.Litt., *Emeritus* Pro-  
fessor.

Dr. Surendranath Dasgupta, C.I.E., M.A., Ph.D. (Cal.), Ph.D.  
(Cantab.), D.Litt. (Rome), King George V Professor.

**ENGLISH**

*Vacant.*

**ECONOMICS**

Dr. Jitendra Prasad Niyogi, M.A., Ph.D., Professor.

**INDIAN LANGUAGES**

Rai Bahadur Khagendranath Mitra, M.A., Ramtanu Lahiri Pro-  
fessor.

Dr. Benimadhab Barua, M.A., D.Litt. (Lond.).

Dr. Sunitikumar Chatterji, M.A., D.Litt. (Lond.), Khaira Pro-  
fessor.

## MATHEMATICS

Dr. C. F. Cullis, M.A., Ph.D., D.Sc., *Emeritus* Professor.

Dr. Friedrich Levi, Dr. Phil. Nat., Hardinge Professor.

## APPLIED MATHEMATICS

Dr. Nikhilranjan Sen, D.Sc., Ph.D., Ghose Professor.

## PHYSICS

Dr. Meghnad Saha, D.Sc., F.R.S., Palit Professor.

Dr. Sisirkumar Mitra, D.Sc., Sc.D. (Paris), Ghose Professor.

Dr. Bidhubhushan Ray, D.Sc., Khaira Professor.

## APPLIED PHYSICS

Dr. Phanindranath Ghosh, M.A., Ph.D., Sc.D., F.Inst.P., Ghose Professor.

## CHEMISTRY

Sir Praphulla Chandra Ray, Kt., C.I.E., D.Sc. (Lond.), Ph.D., F.C.S., F.R.A.S.B., *Emeritus* Professor.

Dr. Praphullachandra Mitter, M.A., Ph.D. (Berlin), Palit Professor.

Dr. Jnanendranath Mookerjee, D.Sc. (Lond.), Ghose Professor.

Priyadarajan Ray, Esq., M.A., F.N.I., Khaira Professor.

## APPLIED CHEMISTRY

Dr. Bireschandra Guha, M.A., Ph.D., D.Sc. (Lond.), Ghose Professor.

## BOTANY

Dr. Shankar Purushottam Agharkar, M.A., Ph.D. (Berlin), Ghose Professor.

Khaira Professor of Agriculture (*Vacant*).

## PHYSIOLOGY

Subodhachandra Mahalanobis, Esq., B.Sc., F.R.S.E.

## ZOOLOGY

Dr. Himadrikumar Mookerjee, D.Sc., D.I.C.

## PSYCHOLOGY

Dr. Girindrasekhar Bose, D.Sc., M.B.

## ANTHROPOLOGY

Kshitisprasad Chattopadhyay, Esq., M.A. (Cantab.).

## BIO-CHEMISTRY

Sir Upendranath Brahmachari, Kt., Rai Bahadur, M.A., M.D., Ph.D.,  
F.N.I., F.R.A.S.B., F.S.M.F. (Bengal) (*Honorary*).

## POST-GRADUATE TEACHERS

## ARTS

## English

.. Dr. Mohinimohan Bhattacharyya, M.A.,  
B.L., Ph.D.; Mr. Nalinimohan Chatter-  
jee, M.A.; Prof. Sunitikumar Chatter-  
jee, M.A., D.Litt.; Mr. Ramaprasad  
Mookerjee, M.A., B.L.; Mr. K. C.  
Mookerjee, M.A.; Mr. Kumudbandhu  
Ray, M.A.; Mr. Suhaschandra Ray,  
M.A.; Mr. Amiyakumar Sen, M.A.;  
Mr. Priyaranjan Sen, M.A.; Mr.  
Rabindranarayan Ghosh, M.A.; Mr.  
Jitendranath Chakrabarti, M.A.;  
Mr. Hiran Kumar Banerjee, M.A.;  
Rev. Mr. C. S. Milford, M.A., M.C.;  
Mr. Humayun Z. A. Kabir, B.A.  
(Oxon.), M.A., Dr. Satyendra Kumar  
Deo, M.A., Ph.D. (Cal. and Lond.);  
Rev. Allan Cameran, M.A., B.D.; Mr.  
Taraknath Sen, M.A.; Dr. Itrat Hus-  
sain Zuberi, M.A., Ph.D. (Edin.).

## Sanskrit

.. Prof. MM. Vidhusekhara Bhattacharyya,  
Shastri; Dr. Satkari Mookerjee, M.A.,  
Ph.D.; Mr. Debendranath Ray, M.A.;  
Prof. Hemchandra Raychaudhuri,  
M.A., Ph.D.; Prof. S. K. Chatterjee,  
M.A., D.Litt.; MM. Vedantavisarad  
N. S. Ananthakrishna Sastri; Prof.  
Benimadhab Barua, M.A., D.Litt.; MM.  
Pandit Sitaram Sastri; Dr. Benoy-  
chandra Sen, M.A., Ph.D.; Dr. Hema-  
chandra Ray, M.A., Ph.D.; Dr. Amare-  
war Thakur, M.A., Ph.D.; Dr. Radha-  
gobinda Basak, M.A., Ph.D.; Dr.  
Prabodhchandra Bagchi, M.A., D.Litt.;  
Pandit Panchanan Tarkabagish; Dr.  
Asutosh Bhattacharyya, M.A., Ph.D.;  
Mr. Krishnagopal Goswami, M.A.;

Dr. Batakrishna Ghosh, dr.Phil. (Munich<sup>9</sup>); Asokanath Bhattacharji, Shastri, M.A.; Dr. Manmohan Ghosh, M.A., Ph.D.; Mr. Kunja Govinda Goswami, M.A.; Mr. Gourinath Bhattacharyya, M.A.; Dr. J. B. Chaudhury, M.A., Ph.D.

## Pali

.. Prof. Benimadhab Barua, M.A., D.Litt. Dr. Nalinaksha Datta, M.A., Ph.D. D.Litt.; Mr. Gokuldas De, M.A.; Dr. Prabodhchandra Bagchi, M.A., D.Litt. Dr. Satkari Mookerjee, M.A., Ph.D. Dr. Hemchandra Raychaudhuri, M.A. Ph.D.; Mr. Sailendranath Mitra, M.A. Dr. Amareswar Thakur, M.A., Ph.D. Prof. S. K. Chatterjee, M.A., D.Litt. Dr. Benoychandra Sen, M.A., Ph.D. Mr. D. L. Barua, M.A.; Dr. Radha-gobinda Basak, M.A., Ph.D.; Mr. Jitendranath Banerjea, M.A.; Dr. Stella Kramrisch, Ph.D.; Mr. Anukul Chandra Banerjea, M.A. (*Assistant Lecturer*).

## Arabic and Persian

Prof. Muhammad Zubair Siddiqi, M.A., Ph.D.; Maulvi Md. Ishaque, M.A., B.Sc.; Maulvi Shah Kalimur Rahman, M.A.; Maulvi Fazlur Rahman Baqui; Mr. L. Dugin; Maulvi Abu Usman Khalid, M.A.; Mr. Mahammad Osman, M.A. (*on leave*); Maulvi Mahfuz-ul-Haq, M.A.; Aga Mirza Mohsen Namazie; Mr. Shibi Ibrahimi, M.A.; Mr. Mahammad Akhbar, M.A.; Dr. Akhtar Imam, M.A., Ph.D.; Mr. S. A. M. Qiqani Nomani, M.A.

Comparative  
Philology

Prof. Suniti Kumar Chatterjee, M.A., D.Litt.; Mr. Kshitischandra Chatterjee, M.A.; Dr. Sukumar Sen, M.A., Ph.D.; Dr. Prabodhchandra Bagchi, M.A., D.Litt.; Dr. Batakrishna Ghosh, dr.Phil. (Munich), D.Litt. (Paris).

Modern Indian  
Languages

Prof. Khagendranath Mitra, Rai Bahadur, M.A. (Ramtanu Lahiri Professor); Mr. Ambikanath Borah, M.A.; MM. Vedantavisarad N. S. Ananthakrishna Sastri; Pandit Babua Misra,



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### Constitution of the University

The University authorities are:—

- (1) *The Chancellor* (Governor of Bengal for the time being).
- (2) *The Vice-Chancellor* who is appointed by the Government of Bengal from among the Fellows.
- (3) *The Ex-Officio* Fellows.
- (4) The Ordinary Fellows.

*The Senate.*—The Chancellor, Vice-Chancellor and Fellows constitute the Senate which is the Governing Body of the University and has the powers to make and alter Bye-laws and Regulations subject to the approval of the Government of Bengal. The Senate is divided into five Faculties, namely, Arts, Science, Law, Medicine and Engineering.

*The Syndicate.*—The executive government of the University is vested in the Syndicate, which consists of the Vice-Chancellor as Chairman, the Director of Public Instruction, Bengal, for the time being, as *ex-officio* Member, and fifteen Fellows who are elected for a period of one year partly by the Senate and partly by the Faculties as follows:—Four, by the Senate; four, by the Faculty of Arts; two, by the Faculty of Science; two, by the Faculty of Law; two, by the Faculty of Medicine; one, by the Faculty of Engineering. Of the fifteen Members, at least seven shall be either Heads of, or Professors in, Colleges affiliated to the University, and of these Syndics, at least, two shall be elected by the Senate, at least five by the various Faculties as follows:—three by the Faculty of Arts; one by the Faculty of Science; one by the Faculty of Medicine.

*The Councils of Post-graduate Teaching.*—Post-Graduate Teaching in Calcutta is conducted only in the name and under the control of the University. For this purpose, two councils have been constituted, namely, the Council of Post-Graduate Teaching in Arts and the Council of Post-Graduate Teaching in Science.

### Number of Students in the University under the Different Faculties

	1940-41
Number of Post-Graduate Students in Arts ..	937
Do. do. in Science ..	307

### Number of Successful Candidates in the Different Examinations

The following were the number of successful candidates in the examinations of 1940:—

Matriculation Examination	..	..	..	14,052
Intermediate in Arts	..	..	..	5,329
Intermediate in Science	..	..	..	2,549
B.A.	..	..	..	2,735
B.Sc.	..	..	..	718
M.A.	..	..	..	549
M.Sc.	..	..	..	111
L.T.	..	..	..	15
B.T.	..	..	..	276
Preliminary Examination in Law	..	..	..	334
Intermediate Examination in Law	..	..	..	327
Final Examination in Law	..	..	..	354
M.L.	..	..	..	Nil
Intermediate Examination in Engineering	(Sec. A)			50
Do.	do.	(Sec. B)		69
B.E. (Professional)	..	..	..	42
B.E. (Non-Professional)	..	..	..	56
Pre. Sc. M.B.	..	..	..	162
First M.B.	..	..	..	176
Second M.B.	..	..	..	232
Third M.B.	..	..	..	179
Final M.B.	..	..	..	202
D.P.H., Part I	..	..	..	58
D.P.H., Part II	..	..	..	32
B.Com.	..	..	..	300
Ph.D.	..	..	..	3
D.Sc.	..	..	..	3
D.L.	..	..	..	Nil
M.D.	..	..	..	3
M.O.	..	..	..	1
Diploma in Spoken English	..	..	..	13
English Teachership Examination	..	..	..	15
Teachers' Training Examination	..	..	..	524
Military Certificate Examination (Junior)	..	..	..	21

### **Library, Museums, Laboratories, etc.**

The University Library is under the management of the Library Executive Committee, subject to the general control of the Syndicate. It is for the use of Resident Fellows, Registered Graduates, Research Scholars, Readers, Professors, Lecturers and Students of Post-Graduate and Under Graduate classes of this University, who are entitled to take out books from the Library. Every facility is given to students and research scholars to utilize the Library for the purpose of study and research from 7 a.m. to 7 p.m. daily excepting Sundays and authorized holidays. Other persons may also use the Library with the permission of the Library Committee on payment of a small fee of Rs. 2-8-0 for every six months and a deposit of Rs. 10 only, but they are not allowed to take out books from the Library for home use. The Central and other Libraries of the University contain over 2,06,000 volumes, including pamphlets and periodicals and a fairly large collection of Bengali, Sanskrit and Tibetan Manuscripts and Rotograph copies of Persian and Arabic Manuscripts.

Besides this Library, there are other Libraries attached to the University, *viz.*, Law College Library and Libraries of the different Departments of Science. The Departmental Science Libraries, numbering seven, are controlled directly by the Central Library while the Law College Library has its own Committee.

There are Laboratories attached to each department of the University College of Science and also Museums attached to the Departments of Anthropology, Commerce and Ancient Indian History and Culture.

The Museum attached to the Department of Ancient Indian History and Culture is named "Asutosh Museum of Fine Arts" after the late Sir Asutosh Mookerjee. The object of this Museum is to collect and preserve specimens representing different phases of Indian Arts, special emphasis being given to Bengal Arts. A scheme of exploration of the different regions of Bengal, under the auspices of the Museum, has been initiated. The museum has been recently presented with the Art Collections of late Mr. Puran Chand Nahar, worth about Rs. 40,000, by his worthy son, Mr. Bijay Singh Nahar, of Calcutta. The Art collections of Mr. Biren Roy, Puri, has also been purchased for the Museum at the cost of Rs. 6,000.

### **Scholarships and Medals**

A large number of Scholarships, Medals and Prizes are awarded every year. For the encouragement of Post-Graduate study in Arts and Science, there are twelve University scholarships of Rs. 32 per month each which are awarded to

the students who have done best at the B.A., B.Sc. or B.Com. Examination. Special Scholarships are awarded for study outside India. The University offers scholarships of Rs. 75 each per mensem to carry on research.

### Provision for Research

There is a large Post-Graduate Department which also helps candidates desirous of attaining Research Degree. A large number of Fellowships and Research Scholarships are awarded by the University to encourage original research.

### University Extension Lectures

With a view to promoting a desire for original investigation and research among the advanced students of the University and members of the outside public interested in education, eminent scholars from India and abroad are, from time to time, invited by the University to deliver courses of lectures on subjects in which they have specialized. These extension lectures are organized in addition to the lectures by the Special University Readers, who are appointed under Chapter X of the Regulations with the sanction of the Government, the aim of these two kinds of lectures being almost identical. These lectures, after delivery, are printed and published by the University.

### University Publications

The University has an up-to-date Press of its own and it undertakes the publication of specialized lectures delivered by the University Professors, Lecturers and Readers, theses of successful candidates for Doctorate degrees, research scholarships and prizes and results of research work carried on by University Professors, Lecturers and Research Assistants, besides a number of periodicals, annuals and serials. A large number of standard works on Indian Culture, Language and Literature, Art and Iconography, History and Sociology (including Ancient Indian History and Culture), Philosophy and Religion, Economics, Politics, Law, Mathematics and Science has also been published. Descriptive catalogue of these publications may be obtained from the Registrar.

Some of the University Publications are:—

				RS.	A.	P.
A History of Indian Literature, by M. Winternitz, ph.D., Professor of Indology and Ethnology of the University of Prague. <i>The only authorized translation into English</i> , Vol. I .. ..	..	..	..	10	8	0
Do. do. Vol. II .. ..	..	..	..	12	0	0

	Rs.	A.	P.
Political History of Ancient India (From the Accession of Parikshit to the extinction of the Gupta Dynasty), Fourth edition, by Hemendra Raychaudhuri, M.A., Ph.D. . . . .	7	8	0
Dynastic History of Northern India, by H. C. Ray, M.A., Ph.D. Vol. I . . . . .	10	0	0
Do. Vol. II . . . . .	15	0	0
A Study of the Vedanta, by Saroj Kumar Das, M.A., Ph.D., Second edition . . . . .	4	0	0
An Introduction to Indian Philosophy, by S. C. Chatterjee, M.A., Ph.D., and D. M. Datta, M.A., Ph.D. . . . .	3	8	0
The Foundations of Living Faiths, by H. D. Bhattacharyya, M.A., B.L. . . . .	5	8	0
The Economic Reconstruction of India, by K. N. Sen, M.A. . . . .	7	8	0
Industrial Finance in India, by S. K. Basu, M.A., Ph.D. . . . .	6	0	0
Manu Smriti, an English translation of Medhatithi's Commentary on the Institutes of Manu, with an intelligible text, by Mahamahopadhyaya Ganganath Jha, M.A., D.Litt., Vice-Chancellor, Allahabad University. Texts. Vols. I-V with 8 parts and Index with Notes, Parts I-III. Full Set . . . . .	50	0	0
Administrative System of the Marathas (from original sources), Second edition, by Surendranath Sen, M.A., Ph.D. . . . .	10	0	0
A History of Islamic People, by S. Khuda Buksh, M.A., B.C.L., Bar-at-Law . . . . .	5	10	0
The Constitutional System of India, by Naresh Chandra Ray, M.A., Ph.D. . . . .	2	8	0
History of Political Thought from Ramnohan to Dayanand. Vol. I (Bengal), by B. B. Majumdar, M.A., Ph.D. . . . .	4	8	0
Contributions to the History of Hindu Revenue Systems, by U. N. Ghoshal, M.A., Ph.D. . . . .	5	8	0
Sino Indica, by P. C. Bagchi, M.A., D.Litt.— Vol. I ( <i>Le Canon Bouddhique en Chine</i> ) . . . . .	15	0	0
Vol. II ( <i>Deux Lexiques Sanskrit-Chinois</i> ) . . . . .	15	0	0
Development of Indian Railways, by N. Sanyal, M.A., Ph.D. . . . .	7	8	0
The Law of Primogeniture, by R. B. Paul, M.A., D.L. . . . .	10	0	0
Yoga Philosophy, by S. N. Das Gupta, M.A., Ph.D. . . . .	5	0	0

Rs. A. P.

Matrices and Determinoids (Readership Lectures delivered at the Calcutta University), by C. E. Cullis, M.A., Ph.D., D.Sc., Vol. I, 24*sh.* net, Vol. II, 42*sh.* net, Vol. III, Part I, £3-3-0 net.

Journal of the Department of Letters—

Vols. I-XXVII each 4 8 0

Vols. XXVIII-XXXII each 6 0 0

Journal of the Department of Science—

Vols. I-X each 4 8 0

The total number of University publications now exceeds 450.

### Military Training

Military Training in the Calcutta Battalion, University Training Corps, is carried out on the same line as that followed in a British Infantry Battalion as far as possible.

The same arms are not provided for U.T. Corps as for regular units, *i.e.*, the Corps has not so far been issued with such arms as the Machine Gun, Lewis Gun, Bombs, etc., but training in tactics—Arms Drill, Ceremonial Drill and Bayonet Training—is carried out, also Musketry Course is fired annually.

Officers receive instruction and practice in tactical exercises, drilling, etc., as for the British Officer at a British Infantry Battalion.

### Residence and Cost of Living

Under Chapter XXIV of the University Regulations the following classes of lodgings are approved:—

- (a) Collegiate Hostels.
- (b) Non-Collegiate Hostels under external management.
- (c) Messes, attached or unattached.
- (d) Private Lodgings.

Licenses to Hostels under class (a) are granted by the Syndicate, while licenses to remaining three classes of lodgings are granted by the Students' Residence Committee—a subordinate body under the Syndicate, which consists of six members appointed annually from among the Fellows of the Senate. Students who do not live with their parents or other *bonafide* guardians approved by the Principals, have to reside in either of the four classes of lodgings mentioned above. The cost of living or messing and seat rent varies in different Hostels and Messes. The messing charge is about Rs. 9 to Rs. 15 per month including establishment. Seat rent varies from Rs. 6 to



Rs. 10 per month including electric charges and medical attendance. Admission to the Hostels or Messes is understood to be for the full session of 10 months.

### University Provident Fund

Detailed rules have been framed for the "Calcutta University Provident Fund," to which the provisions of the Provident Fund Act have been extended by the Government of India. Membership which is compulsory for all new entrants is open to all whole-time teachers, officers and assistants. Each member contributes one-twelfth of his monthly salary and the Fund is supplemented by an equal amount from the University. For employees who have joined from 1-6-38, the rate will be  $6\frac{1}{4}$  per cent.

### Women's Education

The following Institutions impart instruction to the women students only:—

Bethune Collegè, Calcutta.  
 Loreto House, Calcutta.  
 Victoria Institution, Calcutta.  
 St. Mary's College, Shillong.  
 St. Helen's College, Kurseong.  
 Gokhale Memorial Girls' College, Calcutta.  
 South Calcutta Girls' College, Calcutta.  
 Lady Brabourne College, Calcutta.  
 Women's College, Calcutta.  
 Radhakanta Handique Girls' College, Gauhati, Assam.  
 Women's College, Sylhet.

The following Institutions have made special arrangements for imparting instruction to the women students separately:—

Vidyasagar College, Calcutta.  
 Asutosh College, Calcutta.  
 Scottish Churches College, Calcutta (for B.T. only).  
 Gurucharan College, Silchar.

In the Calcutta Medical College and other institutions, lady students are allowed to prosecute their studies if they so desire.

### Students' Information Bureau and its Activities

In paragraph 89 of the Report of the Committee on Indian Students, 1921-22, it was recommended that in place of the Provincial Advisory Committee, each Indian University should establish a bureau specially staffed and equipped for the purpose—

- (a) of supplying students wishing to pursue their education abroad with all the information, advice and assistance which they may require;
- (b) of supplying the foreign University authorities with information regarding the students which will enable them to make their selection from the applications forwarded.

This recommendation of the Committee has been accepted both by the Government of India and the Secretary of State.

1. In Resolution No. 2108 Edn., dated the 2nd July 1924, the Government of Bengal has sanctioned the establishment of a University Bureau at Dacca in place of the Local Provincial Advisory Committee. The Calcutta University have established a Bureau in Calcutta, the constitution of which is as follows:—

- 1. The Vice-Chancellor of the Calcutta University—*President*.
- 2. The Director of Public Instruction, Bengal.
- 3-7. One representative of each of the Faculties of Arts, Science, Law, Medicine and Engineering (the representatives being persons with experience of foreign Universities).
- 8. One representative of the Executive Committee of the Council of Post-Graduate Teaching in Science.
- 9. One representative of the Executive Committee of the Council of Post-Graduate Teaching in Arts.
- 10-12. Three members appointed by the Syndicate (not necessarily members of the Senate), two of whom shall be teachers with experience of foreign Universities.

2. There is a part-time paid Secretary annually appointed by the Syndicate on the recommendation of the Bureau on an honorarium of Rs. 500 per annum, such Secretary being, whenever possible, a person with experience of a foreign University.

3. The Bureau is empowered to appoint correspondents in different parts of the Province to whom information might be supplied for the purpose of residents in the districts concerned.

4. In addition to the grant made to the Advisory Committee in Calcutta, which is, according to the new arrangement, to be transferred to the University, Government also have to transfer the Library of the existing Committee to the University.

5. The Bureau is to offer advice to any student who desires to go abroad for his studies and to furnish foreign Universities with information regarding the qualifications of the student.

The Government of Bengal have sanctioned the above scheme for the establishment of the Bureau in Calcutta. The Bureau is called "The University Students' Information Bureau", Calcutta.

### Students' Welfare Scheme

A special Committee, consisting of prominent medical men, principals of colleges and others interested in health welfare work, called the Students' Welfare Committee, is appointed annually by the Senate to report on the state of health of the students attending the colleges in Calcutta, to consider all questions regarding the health and physical instruction of students and to recommend to the Senate steps which should be taken to improve the health of the student population as a whole.

The work of the Committee can broadly be divided into three sub-heads:—

- (1) Medical Examination.
- (2) After-Care Work.
- (3) Physical Education.

To enable the Committee to carry out this work the University spends about Rs. 30,000 per annum over the Students' Welfare Scheme. There is an office and a medical staff attached to the Committee.

I. *Medical Examination.*—The medical staff attached to the Committee—five medical practitioners—examine the health of all first year students in Calcutta Colleges every year. Health Examination of school students is also undertaken. Each student examined is supplied with a copy of the findings immediately after his health examination. Further shortly after the completion of the examination, a report on health of the students is forwarded to the institution concerned. This report contains lists of students who are found to be defective, with the defects and recommendations for their correction and improvement stated against their names and roll numbers. The Committee publishes an annual report on the health of the students. A lady medical examiner has been specially appointed to examine the health of lady students and to keep under observation those who are suffering from grave defects.

II. *After-Care Work.*—Two After-Care officers have been appointed to follow up and to keep under observation students suffering from grave defects. An eye clinic is attached to the Department for the convenience of students.

A Students' Infirmary, consisting of 10 beds, is maintained by arrangement with the Hospital authorities at the Carmichael

Medical College Hospitals, Belgachia, for treatment of students free of all costs.

The Secretary re-examines all cases found to be suffering from respiratory and circulatory diseases and extreme cases of malnutrition and keeps them under observation. Arrangements are made with firms to supply students with glasses at concession rate. Needy students are provided with glasses free of all costs. Arrangements are also made for treatment of dental affections at concession rates for students. Illustrated lectures on health matters are delivered in the different colleges periodically and health literature and pamphlets are widely distributed to students.

III. *Physical Education*.—The Committee maintains a University organizer of Physical Education. He visits the different colleges with a view to survey the facilities for physical education of students and keeps himself in touch with the various organizations in the University and in the colleges now in existence for organizing games and sports. Further he gives instruction to students on proper methods for physical culture suited to their needs and also coaches students for participation in games and athletics.

The Department runs a well-fitted playing ground where special arrangements are made to coach students in Cricket, Tennis, Hockey and Athletics. To popularise physical activities among the students the Committee organizes Proficiency Tests in Athletics, Gymnastics and Swimming and awards Certificates and Badges to candidates successfully passing the minimum standard.

The Calcutta University Rowing Club has been re-organized and a separate Board of Management has been appointed to control its activities.

### Teachers' Training Department

On account of paucity of arrangements for the training of teachers for High Schools in Bengal, and particularly to meet the needs for specialised training in teaching subjects under the revised Matriculation Regulations, the University has opened a 'Teachers' Training Department under its own supervision. Arrangements have been made for the following courses:—

- (i) A Short-term Training Course;
- (ii) A Training Course for teachers of Geography;
- (iii) A Training Course for teachers of Science; and
- (iv) The Vacation Course for Teachers.

Regular examinations are held at the end of the courses (i), (ii) and (iii) and certificates are granted to successful candidates.

The Vacation Course is in the nature of a refresher course for those who are already in teaching profession.

The Department also holds classes for training students for the B.T. Degree examination.

The Department also organizes from time to time lectures by eminent educationists, of general and public interest, on education and allied subjects, and it has undertaken research works on different aspects of education, as well as the publication of bulletins on educational matters.

### **Appointments and Information Board**

Appointments and Information Board was established by the Senate on the 23rd January 1937, to work out the scheme prepared by Dr. Syamaprasad Mookerjee, former Vice-Chancellor of the University. The Board is constituted periodically by the Syndicate, usually at the end of two years. The functions of the Board are as follows:—

- (1) to select apprentices for practical training, both technical and non-technical, in firms and industrial concerns;
- (2) to recommend to firms names of suitable candidates for appointments when requested;
- (3) to remain generally in touch with employers, to collect statistics regarding possible openings and supply information to the graduates and under-graduates as to the careers open to them;
- (4) to advise students preparing for various Service Examinations, to supply them with particulars of such examinations, and if necessary to organise their training.

The Board maintains a Register of suitable candidates (only graduates and under-graduates of the Calcutta University) with details of their qualifications and careers, seeking employment through the Board; for this purpose, it works in close co-operation with the institutions affiliated to the University. In order to enable mofussil students to take advantage of the facilities offered by the Board it has set up an Advisory Committee in every college. The Board is in close touch with different Chambers of Commerce and Trades Associations of Calcutta and their members, from whom valuable support is received. The Board is also consulted by some of the Government departments and quasi-Government institutions. No fees are charged from candidates for having their names registered with the Board.

The Board has got arrangements for teaching certain subjects of the Indian Civil Service, Indian Police Service, Indian Audit and Accounts Service, Imperial Customs Service, Military Accounts Department and Indian Railway Accounts Service, the Postal Superintendent (Class II) Service, and the Transportation (Traffic) and Commercial Departments of the Superior Revenue Establishment of State Railways Examinations.

The Board organizes from time to time 'Career Lectures' dealing with various industries, which are delivered by prominent businessmen, both Indian and European, of the City. The Board also regularly circulates to all the affiliated colleges of the University, recruitment notifications issued by the Federal Public Service Commission and other Institutions.

### **Admission to the University, Courses of Study Examinations and Degrees**

#### ADMISSION TO THE UNIVERSITY

A candidate seeking admission to the University must have passed the Matriculation Examination conducted by the University or an examination accepted as equivalent thereto. The University confers in Arts the Degrees of B.A. (Pass and Honours), M.A. and Ph.D.; in Science, B.Sc. (Pass and Honours), M.Sc. and D.Sc. The Professional Degrees are B.Com., B.T., B.L., M.L., D.L., M.B., M.D., M.S., M.O., D.Sc. (Public Health), B.E., B.Met. (Metallurgy), Bachelor of Architecture and D.Sc. (Engineering). In addition to the above, the following Diplomas are also granted: Diploma in Public Health, Diploma in Ophthalmic Medicine and Surgery, Licentiate in Teaching and Diploma in Spoken English. Provision is made, under conditions, for admission as non-collegiate students of Teachers, Laboratory Assistants, Demonstrators and Librarians of affiliated Colleges. Lady candidates can appear at the University examinations without studying in an affiliated College.

A candidate for the Matriculation Examination will be examined in:—

(1) A major Vernacular Language (*viz.*, Bengali, Urdu, Assamese or Hindi) (two papers); (2) English (two papers and a half); (3) Geography (half paper); (4) History of India and England (one paper); (5) Mathematics (one paper); (6) a Classical Language or an Indian Vernacular recognized by the Syndicate other than the Vernacular of the candidate already taken up or a Modern European Language (one paper); (7) Elementary Scientific Knowledge (one paper); and (8) any one of the following: Elements of Physics and Chemistry,

Mensuration and Surveying, Elementary Mechanics, Elementary Hygiene, Elements of Biology, Additional Mathematics, Business Method and Correspondence, Commercial Geography, Elements of Public Administration in India (one paper). (For the years 1940, 1941 and 1942, *i.e.*, for the first three years after the regulations come into operation "*Elementary Scientific Knowledge*" will not be a compulsory subject but will be included as a subject in this list.) If the Vernacular of the candidate is other than a *Major Vernacular*, he shall take up in lieu of the two papers allotted for the Major Vernacular two papers on any two out of the list of subjects mentioned above in (8) with Additional English added to the list.

For the girl candidates the list of subjects is as follows:—

(1) A Major Vernacular Language (*viz.*, Bengali, Urdu, Assamese or Hindi) (two papers); (2) English (two papers and a half); (3) Geography (half paper); (4) History of India and England (one paper); (5) Mathematics, or Arithmetic and Domestic Science including Domestic Hygiene (one paper); and (6) at least two but not more than three of the following subjects:

A Classical Language or a Modern European Language or an Indian Vernacular recognized by the University other than the one already taken up by her; Elementary Scientific Knowledge; Elements of Physics and Chemistry; Elementary Mechanics; Elementary Hygiene (only for those who take up Mathematics); Elements of Biology; Additional Mathematics; Business Method and Correspondence; Commercial Geography; Elements of Public Administration in India; Sewing and Needlework; Music; Drawing and Painting including an appreciation of Fine Arts. (*N.B.*—So long as Elementary Scientific Knowledge is not made a compulsory subject for boys, the girl candidates will have to take up at least one but not more than two out of the above list.) Girls whose Vernacular is not one of the Major Vernaculars shall take up at least three, but not more than four out of the list in (6) mentioned above. (*N.B.*—So long as Elementary Scientific Knowledge is not made a compulsory subject for boys, such girls will have to take up at least two but not more than three subjects out of the list.)

Each paper is of 100 marks and a half paper is of 50 marks and a candidate must obtain 36 per cent. of the total marks in Vernacular and English and 30 per cent. of the total marks in each of the other subjects and 36 per cent. of the total marks in the aggregate of all the compulsory papers, in order to pass the Matriculation Examination. Marks in excess of 30 obtained in an optional subject shall be added to the aggregate of marks obtained in the compulsory papers and shall

be taken into account for determining the candidate's division and place in the pass list. A candidate who obtains 60 per cent. of the marks in the aggregate shall be placed in the First Division, and those who obtain 50 per cent. shall be in the Second Division, and other successful candidates in the Third Division.

Every school recognized by the University as competent to send up candidates for the Matriculation Examination must provide for physical instruction to all pupils unless exempted by the Syndicate for any special reason, and shall be required to impart training, for a prescribed period, in at least one of the following subjects:—

Agriculture and Gardening, Carpentry, Smithery, Book-Keeping, Spinning and Weaving, Tailoring and Sewing, Music, Basket-making, Telegraphy, Needlework, Drawing and Painting including an appreciation of Fine Arts, Cookery, and such other subjects as may, from time to time, be prescribed by the Syndicate.

## COURSES OF STUDY AND DEGREES

### ARTS

*Intermediate Examination.*—The course of study extends over a period of two years. The subjects and scheme of examination are as follows: English (three papers), one of the Vernacular languages (one paper) and three of the following (two papers each) of which two at least must be from Group A:

*Group A.*—(1) One of the Classical Languages,\* (2) History, (3) Logic, (4) Mathematics, (5) Elements of Civics and Economics, (6) Commercial Geography, and (7) Commercial Arithmetic and Elements of Book-Keeping.

*Group B.*—(1) Physics, (2) Chemistry, (3) Geography, (4) Physiology, (5) Botany, (6) Zoology, (7) Geology, (8) Anthropology, (9) Biology and (10) Psychology.

(Practical examination is held in the subjects in Group B.)

Candidates may also be examined, if they so desire, in an additional subject included under Group A, provided they have not already taken the subject. In this optional subject there will be two papers.

The minima for a pass are as follows:—English 36 per cent., Vernacular or in the alternative paper, 36 per cent. and 30 per cent. in each of the remaining subjects excepting that in each of the subjects in Group B, the pass marks in the two *theoretical* papers is 40 and in the *practical* papers 20, and 36 per cent. of the aggregate. Those who obtain 50 per cent. or

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\* Bengali, Hindi, Assamese and Urdu may be taken up in lieu of a Classical Language under certain conditions.



more of the aggregate are placed in the First Division while those who obtain 40 per cent. in the Second Division.

*Bachelor of Arts (Pass and Honours).*—The course of study extends over a period of two years.

Every candidate is examined in the following subjects:—

1. English—Three papers for Pass. Six Hons. papers.
2. Vernacular—one Pass paper.
- 3 and 4. *Two* of the following subjects, one of which at least must belong to Group A:—

#### *Group A*

I. One of the following languages:—Sanskrit, Pali, Arabic, Persian, Hebrew, Classical Armenian, Greek, Latin, French, German, Italian, Syriac, Bengali, Hindi and Urdu—three Pass papers and six Honours papers in each of these subjects and Assamese—three Pass papers only in this subject.

II. History.

II A. Indo-Islamic and World History.

II B. Islamic History and Culture.

II C. Ancient Indian and World History.

III. Political Economy and Political Philosophy.

IV. Mental and Moral Philosophy.

V. Mathematics.

VI. Linguistics.

(The syllabus of Mathematics in the Honours Course includes study of Astronomy. Practical training has been introduced in the course of studies in Astronomy.)

Three Pass papers and Six Honours papers in each of the subjects.

No candidate will be allowed to take up more than one subject among II, II A, II B, and II C.

No candidate will be allowed to take up Mental and Moral Philosophy unless he has passed the Intermediate Examination in Logic and no candidate will be allowed to take up this subject along with Psychology.

#### *Group B*

I. Physics.

II. Chemistry.

III. Physiology.

IV. Botany.

V. Zoology.

VI. Anthropology.

VII. Psychology.

VIII. Geography.

IX. Statistics.

In the Pass course, two Theoretical papers and one Practical paper and in the Honours course four Theoretical papers and two Practical papers in each of these subjects.

No candidate will be allowed to take up any subject in Group B or Mathematics, who has not taken up the corresponding subject at the Intermediate Examination. If, however, a candidate has passed the Intermediate Examination taking up Physiology, Biology or Physics, he may take up Psychology.

The maximum number of marks for each paper is 100.

1. A candidate must obtain in order to pass in the Pass course—

In English	..	..	100 marks
Vernacular or paper alternative to it	..	..	33 „
Any subject in Group A	..	..	100 „
Any subject in Group B in the Theoretical papers	..	..	60 „
In the Practical papers	..	..	40 „

2. A candidate must obtain in order to pass in the Honours course—

In English	..	..	180 marks
Any subject in Group A	..	..	180 „
Any subject in Group B in the Theoretical papers	..	..	108 „
In the Practical papers	..	..	72 „

3. A candidate must obtain in order to qualify for Honours—

In English	..	..	240 marks
Any subject in Group A	..	..	240 „
Any subject in Group B in the Theoretical papers	..	..	160 „
In the Practical papers	..	..	80 „

4. If a candidate takes up the Pass course in four subjects, he must, in order to pass the B.A. Examination, pass in each subject, and obtain 360 marks in the aggregate. If he passes and obtains 500 marks in the aggregate, he shall be declared to have passed with distinction.

5. If a candidate takes up the Pass course in three subjects, and the Honours course in one subject, he must, in order to pass the B.A. Examination, pass in each subject, and obtain 468 marks in the aggregate. If he passes and also qualifies for Honours in his Honours subjects he shall be declared to have obtained Second Class Honours in that subject. If he passes, qualifies for Honours in his Honours subject, and obtains 360 marks in that subject, he shall be declared to have obtained First Class Honours in such subject.

*Master of Arts.*—The course of study extends over two years and is open to Bachelors of Arts and Commerce. The subjects of study and the scheme of examination are as follows:

1. English	..	..	8 papers
2. Sanskrit	..	..	"
3. Pali	..	..	"
4. Arabic	..	..	"
5. Persian	..	..	"
6. Hebrew	..	..	"
7. Syriac	..	..	"
8. Greek	..	..	"
9. Latin	..	..	"
10. French	..	..	"
11. German	..	..	"
12. Modern Indian Language	..	..	"
13. Comparative Philology	..	..	"
14. Mental and Moral Philosophy	..	..	"
15. History	..	..	"
15a. Ancient Indian History and Culture	..	..	"
15b. Islamic History and Culture	..	..	"
16. Political Economy and Political Philosophy	..	..	"
17. Commerce	..	..	"
18. Pure Mathematics	..	..	"
18a. Applied Mathematics	..	..	"
19. Physics	..	..	5 Theoretical papers and 3 days Practical tests.
19a. Applied Physics	..	..	5 Theoretical papers and 4 Practical papers.
20. Chemistry	..	..	"
20a. Applied Chemistry	..	..	"
21. Physiology	..	..	5 Theoretical papers and 4 Practical papers.
22. Botany	..	..	"

23. Geology	..	..	5 Theoretical papers and 3 days Practical tests.
24. Zoology and Comparative Anatomy			4 Theoretical papers and 4 Practical papers.
25. Psychology	..	..	5 Theoretical papers and Practical Examination for at least 4 days.
26. Anthropology	..	..	5 Theoretical papers and 3 days Practical tests.
27. Statistics	..	..	5 Theoretical papers, 3 Practical papers (for those who take up Group B or C) and 7 Theoretical papers and 1 Practical paper (for those who take up Group A).
28. Geography	..	..	6 Theoretical papers and 2 Practical papers.

In order to obtain a pass in subjects 1-18*a* a candidate must obtain 288 marks in the aggregate. No minimum pass marks are required in each paper but if in any paper a candidate obtains less than 25 marks, those marks are not included in his aggregate. Candidates obtaining 360 marks are placed in the Second Class and those obtaining 480 marks in them First Class.

In order to pass in subjects 19*a*, 20, 20*a*, and 24 a candidate must obtain 132 marks in the aggregate of the four papers (theoretical) and 160 marks in the Practical Examination. In order to pass in subjects, Nos. 19, 23, 25 and 26 a candidate must obtain 165 marks in the aggregate in the Theoretical papers and 120 marks in the Practical Examinations. Marks less than 25 obtained in any theoretical paper in these subjects will not be included in the aggregate. In order to pass in subjects, Nos. 21 and 22, a candidate must obtain 132 marks in the aggregate in the Theoretical papers and 160 marks in the Practical examination and marks less than 20 obtained in any theoretical papers in these subjects will not be included in the aggregate.

Candidates obtaining 360 marks are placed in the Second Class and those obtaining 480 marks in the First Class.

*Degree of Doctor of Philosophy.*—A Master of Arts who has been placed either in the First or in the Second Class at the M.A. Examination may be a candidate for the degree three years after the M.A. Degree. This is an examination by thesis, supplemented, if necessary, by an examination written, oral, or in subjects which admit of it, by a practical examination. On the approval of the Syndicate the Degree of Doctor of Philosophy is conferred.

*Diploma in Spoken English.*—This is open to all Masters of Arts and Science, Bachelors of Arts and Science as well as Bachelors of Teaching and Licentiates in Teaching who have received training in elocution for a period of not less than one year under a teacher recognized for the purpose. Candidates are required to undergo a written examination to test the candidate's knowledge of the elements of Phonetics with special reference to the pronunciation of English words and an Oral examination to test the candidate's power of elocution and his ability to carry on an ordinary conversation in English. To obtain a pass, a candidate must get 30 marks in the Written examination and 200 marks in the Oral examination. Candidates obtaining 300 marks in the aggregate are placed in the First Class.

## SCIENCE

*Intermediate Examination in Science.*—The course of study extends over two years after passing the Matriculation examination. The subjects of study and the scheme of examination are as follows:—(1) English (three papers), (2) a Vernacular Language (one paper), (3) Chemistry (two papers), (4) Mathematics or Physics (two papers) and (5) any one of the following (two papers): Mathematics (if not already taken), Physics (if not already taken), Botany, Zoology, Geology, Geography, Physiology, Biology, Anthropology and Psychology. Candidates may take an additional subject (two papers), if they so desire, included under 5, provided they have not already taken the subject, or French or German.

(Practical examination in Science subjects has been introduced with effect from the examination of 1939)

For a pass, a candidate must obtain 36 per cent. in English, 36 per cent. in the Vernacular or the alternative paper in English, 30 per cent. in each of the compulsory subjects taken up, and 34 per cent. in the aggregate. A candidate is placed in the First Division if he obtains 50 per cent. and the candidate who obtains 40 per cent. is placed in the Second Division.

*Bachelor of Science (Pass and Honours).*—The course of study extends over two years after the Intermediate Examination and candidates are allowed to study and be examined in any *three* of the following subjects:—(1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Geology, (6) Zoology, (7) Physiology, (8) Psychology, (9) Anthropology, (10) Geography, and (11) Statistics. No student will be permitted to take Mathematics or Geography if he has not taken it up for the Intermediate Examination. No student will be permitted to take up Physics or Chemistry unless he has taken up both Mathematics and Physics at the Intermediate Examination and no student can take up Psychology if he has not taken up Psychology or Physiology or Biology or Physics at the Intermediate Examination. No student will be allowed to take up Botany if he has not passed the I.Sc. Examination in Botany or Biology. No student will be permitted to take up Statistics if he has not taken up Mathematics at the Intermediate Examination. In the Pass course, there are three papers in each subject, of which except in Mathematics, two are theoretical papers and one is practical paper. For a pass a candidate must obtain  $33\frac{1}{3}$  per cent. in Mathematics, and 30 per cent. in the theoretical papers of any other subject and 40 per cent. in the practical papers. The number of papers set for the Honours course is six in Mathematics and four theoretical and two practical in the other subjects. Practical training has been introduced in the course of studies in Astronomy which is included as a subject of study in the syllabus of Mathematics in the Honours course.

To obtain Honours, a candidate must obtain 30 per cent. of marks in Mathematics and 27 per cent. in the theoretical papers and 36 per cent. in practical papers in any other subject.

*Master of Science.*—It is a two years' course after the B.Sc. Examination, and the subjects of study and the scheme of examination are:—One of the following: (1) Pure Mathematics (eight papers), (2) Applied Mathematics, (3) Chemistry, (4) Applied Chemistry, (5) Physics, (6) Applied Physics, (7) Botany, (8) Physiology, (9) Zoology and Comparative Anatomy, (10) Geology, (11) Psychology, (12) Anthropology, (13) Statistics, and (14) Geography. Distribution of papers and marks in these subjects is the same as noted in respect of these subjects for the *Master of Arts*.

*Doctor of Science.*—A Master of Science who has been placed either in the First or in the Second Class of the M.Sc. Examination may be a candidate for the degree three years after the M.Sc. Degree. This is an examination by thesis, supplemented, if necessary, by an examination, written, oral or practical. On the approval of the Syndicate, the Degree of Doctor of Science is conferred.

### EXAMINATIONS AND DEGREES LEADING TO PROFESSIONS COMMERCE

*Bachelor of Commerce.*—The course of study extends for two years after the Intermediate Examination. The subjects of study and the scheme of examination are as follows:—

(1) English Composition, including essay, precis-writing and drafting of business letters:

Essay—30 marks.

Precis-writing—30 marks.

Drafting of letters—40 marks—1 paper.

(2) One of the following languages:

Bengali, Assamese, Hindi, Oriya, Urdu, Japanese,

French, German and Italian—1 paper.

(3) Accountancy—1 paper.

(4) Commercial Law—1 paper.

*Group A.—Papers (5) and (6):*

General Economics—1 paper.

Indian Economics—1 paper.

*Group B.—Papers (7) and (8):*

Business Organization—1 paper.

Commercial Geography—1 paper.

*Group C.—Papers (9) and (10):*

Any one of the following:—

(1) Advanced Accountancy—1 paper.

Auditing—1 paper.

(2) Trade and Tariff—1 paper.

Transport—1 paper.

(3) Banking—1 paper.

Currency—1 paper.

(4) Statistics—1 paper.

Insurance—1 paper.

(5) Public Administration—1 paper.

Public Finance—1 paper.

(6) Land Systems—1 paper.

Agricultural Economics—1 paper.

(7) Economic History—1 paper.

Modern Industrial Organization with special reference to India—1 paper.

Each paper shall be of three hours and shall carry 100 marks.

In order to pass a candidate must obtain 30 per cent. of the marks in each subject or group of subjects and 40 per cent.

of marks in the aggregate, provided that a candidate who takes up an Indian language must obtain 40 per cent. of the marks in the subject. In order to be placed in the First Division, he must obtain 60 per cent. of the marks in the aggregate.

### TANNING

*Certificate in Tanning.*—It is a three years' course and any undergraduate of the University who has passed the Intermediate Examination with Physics, Chemistry and Mathematics and preferably with Botany or Zoology or Biology as an additional subject is eligible for admission to the course. The subjects for the examination are: (i) Principles and Methods of Leather Manufacture (3 theoretical and 4 practical papers); (ii) Analytical Chemistry of Leather Manufacture (2 theoretical and 2 practical papers); (iii) Elementary Chemistry (2 theoretical and 2 practical papers); (iv) Elementary Microscopy and Bacteriology of Leather Manufacture (2 theoretical and 2 practical papers); (v) Leather Trades Engineering (2 theoretical and 2 practical papers); and (vi) Elementary Book-Keeping (one theoretical paper). The theoretical paper and the practical paper each carries 50 marks and 10 per cent. of the marks in the practical paper shall be set apart for laboratory and tannery note books. In order to pass the examination, a candidate must obtain 33 per cent. of the marks in each subject. Candidates obtaining 45 per cent. of the aggregate marks shall be placed in the Second Class and those obtaining 60 per cent. in the First Class.

### TEACHING

*Licentiate in Teaching.*—Any candidate may be admitted to the Examination not less than one year after passing the Intermediate Examination in Arts or Science provided he has attended a regular course of lectures on the Art and Theory of Teaching in a College or Colleges affiliated in Teaching and, in addition, has undergone a course of practical training in practical skill in teaching. There shall be a written examination in (1) Principles of Education, (2) Method of Teaching and School Administration, (3) History, (4) English Composition, and a practical examination for testing skill in teaching any three of the following subjects:—(i) English, (ii) Vernacular, (iii) A Classical or a Modern Language, (iv) History, (v) Geography, (vi) Mathematics, (vii) Science of Nature Study, (viii) Hygiene, (ix) Art or Manual Work, (x) the Kindergarten System, (xi) Method of Teaching, and testing the Primary School subjects, Methods of Inspection, (xii) Music. For the written examination, there shall be one paper in each of (iii) and (iv) and two papers in (ii). Each paper will carry 100 marks and 300 marks are assigned to the practical examination.



In order to pass, a candidate should obtain 40 per cent. in each of the four subjects for the written examination and also in the practical examination. Candidates obtaining 60 per cent. of the total marks will be declared to have obtained a First Class.

*Bachelor of Teaching.*—Any candidate may be admitted to the Examination not less than one year after passing the B.A. or B.Sc. Examination, provided he has attended a regular course of lectures on the Art, Theory and History of Teaching in a College or Colleges affiliated in Teaching and has, in addition, undergone a course of practical training in practical skill in Teaching.

Any candidate who has passed the examination for the Licentiate in Teaching and has also graduated in Arts or in Science, may be admitted to this Examination without compliance with the conditions provided that a candidate, who is a Licentiate in Teaching and who has served in a recognized school for at least seven years, may appear at the Examination for the Degree of Bachelor of Teaching without having passed the B.A. or B.Sc. Examination and without compliance with the conditions laid down in the above paragraph.

Any graduate teacher of a recognized school may also appear at the B.T. Examination as a non-Collegiate student, if he has served as a teacher for at least two years and has graduated with Honours or has obtained the degree of M.A. or M.Sc. in the First or the Second Class, or has passed the University Teachers' Training Certificate Examination with distinction or the school in which he serves is specially approved for the purpose.

Candidates will be examined in (1) Principles of Education, including Educational Psychology, (2) History of Education, (3) General Methods, School Organization and School Hygiene, and (4) Contents and methods of teaching any three school subjects from the following list, Geography being considered as equivalent to two subjects: (i) English, (ii) A Modern Indian Language—Bengali or Hindi, or Urdu or Assamese, (iii) a Classical Language, (iv) a Modern European Language, (v) History, (vi) Geography, (vii) Mathematics, (viii) Hygiene, (ix) Arts and Crafts, (x) Music, (xi) Physical Sciences (Physics, Chemistry and Astronomy), (xii) Biological Sciences (Botany, Zoology, Physiology) and Geology, (xiii) Primary and Infant School Subjects; (5) Essay and Composition in one of the Modern Indian Languages (Bengali or Hindi, or Urdu or Assamese). The candidate may, if he so desires, be also examined in one of the following subjects: (i) Mental and Educational measurements, (ii) Social and Abnormal Psychology applied to Education, (iii) Mental Hygiene and Child Guidance,

(iv) Methods and Organization in Nursery Schools, Kindergartens and Montessori Schools, (v) Comparative Education with reference to selected countries in Europe and America, and (vi) Education of Handicapped children. Each theoretical paper shall carry 100 marks and 250 marks shall be allotted for the practical examination.

In order to pass a candidate should obtain 40 per cent. of the marks in each of the written subjects and also in the practical examination. Candidates obtaining 540 marks shall be declared to have obtained a First Class and those obtaining 360 marks shall be declared to have obtained a Second Class.

*English Teachership Examination.*—The examination will be held for granting certificates to candidates as competent to teach English in schools recognized by the University. The minimum qualification for admission to the Examination is a pass at the Intermediate Examination and service as teacher for at least one year prior to the Examination in a recognized school. Candidates who are graduates may be exempted from serving as Teachers. The examination shall be written, oral and practical and shall be conducted on the lines of syllabus to be drawn up by the Syndicate on the joint recommendation of the Boards of Studies in English and Teaching. The candidates must undergo a special course of training for at least eight weeks, organized or recognized by the University for the purpose of the Examination. In order to pass in the Written examination a candidate must obtain at least 60 marks out of 150 marks allotted for the Examination, and 60 marks out of 150 marks in the Oral examination and 100 marks out of 200 marks in the Practical examination. In certain cases exemption is granted from the Written examination.

#### TEACHER'S TRAINING CERTIFICATE EXAMINATIONS

These Examinations are held in (A) General, (B) Science, and (C) Geography.

(A) *General.*—A candidate who has passed the Intermediate Examination and served as a teacher for at least two years, or who has graduated in any Faculty with Honours or distinction, or has obtained the Master's Degree is eligible for admission to the Examination provided he has undergone Teachers' Training Course for at least three months under the University. The subjects of study for this Examination are: (1) General Principles of Education (one paper), (2) Educational Psychology (one paper), (3) Education in Bengal and Assam (one paper), and (4) and (5) Methods of Teaching two of the prescribed school subjects (one paper each). There is also a practical and oral examination. Candidates are also required to prepare Lesson Notes and do tutorial work.

(B) *Science*.—A candidate who has passed the B.Sc. Examination one year previously and has undergone Teachers' Training Course for at least three months under the University is eligible for admission to the examination. The subject of study for this examination are: (1) Principles of Education and Methods of Teaching Science (one paper), (2) Astronomy, Geology, Physics and Chemistry (one paper), (3) Botany, Zoology, Physiology (one paper). There are also Practical Examinations in these subjects excepting in Astronomy. Candidates are also required to prepare Lesson Notes and do tutorial work.

(C) *Geography*.—A candidate who has passed the Degree Examination and has served as a teacher for at least one year, or a candidate who is a graduate and has passed the Intermediate Examination with Geography, is eligible for admission to the Examination provided he has undergone Teachers' Training Course in Geography under the University for at least three months. The subjects of study are: (1) Principles of Education and Methods of Teaching Geography (one paper), (2) (a) Mathematical Geography and Climatology and (b) Physiography, Geomorphology and Biogeography (one paper), (3) (a) Human Geography and Commercial Geography, and (b) Regional Geography and Map-making (one paper). There is also a Practical and Oral Examination. Candidates are also required to prepare Lesson Notes and do tutorial work.

## LAW

*Bachelor of Law*.—It is a three years' course and graduates in Arts, Science, Commerce, Medicine and Engineering are eligible for admission to this course of study and have to pass in succession, (1) Preliminary Examination, (2) an Intermediate Examination, and (3) a Final Examination. In all these examinations, there may, in addition to the written examination, be an oral test. The subjects of study and the scheme of examination are as follows:—*Preliminary Examination*: (1) Jurisprudence (one paper), (2) Roman Law (one paper), (3) Hindu Law (one paper), and (4) Constitutional Law (one paper). *The Intermediate Examination*: (1) Muhammadan Law and Law relating to persons (one paper), (2) The Law relating to Property, including Law of Transfer, *inter vivos* (one paper), (3) and (4) Principles of English Law of Real Property and Law of Intestate and Testamentary Succession (one paper), and (5) The Law of Contracts and Torts (one paper). *The Final Examination*: (1) The Law relating to Property, including the Law of Land Tenures, Land Revenue and Prescription (one paper), (2) The Principles of Equity, including the Law of Trusts (one paper), (3) The Law of Evidence and the General

Principles of Civil Procedure and Limitation (one paper), and (4) The Law of Crimes and the General Principles of Criminal Procedure (one paper).

In order to pass the Preliminary, Intermediate or Final Examination, a candidate must obtain 30 per cent. in each paper and 50 per cent. in the aggregate. A candidate obtaining 67 per cent. will be placed in the First Division.

*Master of Law.*—The subjects of study and the scheme of examination are as follows:—A candidate will be examined in the following subjects besides an oral test, if the examiners think it necessary: (1) Hindu Law or Muhammadan Law (one paper), (2) Jurisprudence and Principles of Legislation (one paper), (3) Principles and History of Roman Law (one paper), (4) Private International Law (one paper), (5) and (6) Any two of the following subjects (two papers): (a) Principles of Equity, (b) The Law relating to the Transfer of Immovable Property and the Law of Prescription, (c) The Law relating to Wills, (d) The Law of Contracts and Torts, (e) Principles and History of the Law of Real and Personal Property, (f) Principles and History of the Law of Evidence, and (g) History of English Law.

In order to pass the examination, a candidate must obtain 50 marks in each paper, and to be ranked in the First Class, he must obtain 400 marks in the aggregate.

*Doctor of Law.*—It is open to all Masters of Law provided one year has elapsed since they obtained their Master's Degree. This is an examination by thesis, which may be supplemented by an examination, written, oral, or both, according as the Board of Examiners appointed to report on the merits of the thesis may think fit. If the Syndicate, upon the report, consider the candidate worthy of the Degree of Doctor of Law, the candidate is admitted to the Degree.

## MEDICINE

The M.B. course consists of three stages: (i) First M.B. Examination, (ii) Final M.B. Examination, and (iii) Instruction after Final M.B. Examination. Qualifications for admission to the course are either (a) a pass at the Intermediate Examination in Science with Mathematics, Physics, Chemistry and Biology or (b) after passing the Intermediate Examination in Science with Physics, Chemistry and Mathematics, prosecution of a course of study for six months in Biology, or in Zoology and Botany.

The First M.B. course consists of not less than two years' course of study, theoretical and practical, in the following subjects: (i) Organic and Physical Chemistry, (ii) Anatomy, (iii) Physiology, (iv) Pharmacology (Materia Medica, Practical

Pharmacy and Toxicology), and (v) Elementary Pathology and Bacteriology. The examination shall be Written, Oral and Practical. In assessing the marks the Examiners are to take into account duly attested records of work done by the candidate. The Final M.B. course consists of two parts covering a total period of not less than 3 years. The two parts consist of as follows: Part I—(a) Medicine (including Applied Anatomy and Physiology, Clinical Pathology and Therapeutics, Diseases of children, Tuberculosis, Skin Diseases and Infectious Diseases and Psychopathology); (b) Pathology, Bacteriology and Parasitology; (c) Pharmacology and Therapeutics; (d) Public Health and Hygiene; (e) Forensic and State Medicine. In this part of the course practical instruction on the conduct of necropsies with a certificate of having acted as *post-mortem* clerk in at least 10 cases is necessary. The course also includes (i) a medical clinical clerkship for a period of nine months, of which six months must be spent in the hospital wards, one month of ward-clerking being spent as an intern-clerk in residence in hospital or close by, and three months in the Out-patient Department, (ii) a clinical clerkship for one month in a children's ward or hospital or in an Out-patient Department. Part II—(a) Surgery (including Applied Anatomy and Physiology, Clinical Pathology, Ophthalmology, Diseases of Ear, Nose and Throat, Radiology, Orthopædics and Venereal Diseases, Dental Diseases and Surgical Diseases of Infancy and Childhood), and (b) Obstetrics and Gynæcology including Infant Hygiene. The course in Surgery includes a surgical Dressership for a period of nine months, of which six months must be spent in the hospital wards—one month of surgical ward-dressing being spent as an intern-clerk in residence in hospital or close by, and three months in Out-patient Department. The courses in Obstetrics and Gynæcology including Infant Hygiene includes attendance on the practice of a maternity hospital or the maternity wards of a general hospital for a period of at least three months. Of this period not less than one month should be spent as a resident pupil in a maternity hospital or maternity ward of a general hospital.

In Medicine, Surgery and Obstetrics and Gynæcology including Infant Hygiene, the examination will consist of one theoretical paper in each, an Oral Examination, a Practical Examination and a Clinical Examination. The examination in Pathology will consist of one Theoretical paper, a Practical examination and an Oral examination. The examination in Pharmacology, Therapeutics, Public Health and Hygiene and Forensic and State Medicine will consist of one Theoretical and one Oral examination in each.

The course of instruction after passing the Final M.B. Examination in Part I and Part II consists in attendance at

Practical clinical instruction for a period of six months in the wards of a hospital specially recognized for the purpose. A part not exceeding one month of the post-clinical period should be spent in a hospital for special diseases.

(A set of Transitory Regulations have been prescribed to meet those cases of students under the Old Regulations who would elect to transfer to the courses of studies under these New Regulations.)

*Diploma in Public Health.*—The course is open to any Bachelor of Medicine or Licentiate in Medicine and Surgery on production of certificates of having subsequent to passing the M.B. or L.M.S. Examination—

- (i) attended, during a period of not less than six months, approved courses of instruction in (a) Bacteriology including Immunology and Serology, Filterable Viruses and the Rickettsias, Medical Entomology, Protozoology and Helminthology especially in their relation to diseases of man and to those diseases of the lower animals transmissible to man—this course to last at least 200 hours; (b) Public Health, Chemistry and Physiology, (Bio-Chemistry and Bio-Physics) applied to Public Health—this course to last at least 160 hours;
- (ii) been diligently engaged for at least six months in acquiring practical knowledge of the duties, routine and special, of public health administration under the supervision of a recognized Medical Officer of Health of a town or sanitary area of not less than fifty thousand inhabitants, who shall certify that the candidate has received from this officer or from other competent Medical Officer during not less than three hours on each of 60 working days, instruction in these duties (a candidate who produces evidence that he has been in independent sanitary charge of a town or district may under very special circumstances be exempted from this rule);
- (iii) attended for three months in the clinical practice of a recognized hospital for infectious diseases and has received therein instruction in the methods of administration (at least 30 days' attendance of not less than two hours each shall be required);
- (iv) received, during not less than 80 hours, at an institution or from teachers approved by the University, instructions in the following subjects:—
  - The Principles of Public Health and Sanitation.
  - Epidemiology and Vital Statistics.
  - Sanitary Law and Administration.
  - Sanitary Construction and Planning.

- (v) completed two years' continuous practice of the medical profession which may include the period of training specified above. Provided that a candidate may appear in Part I (but not in Part II) of the examination on the completion of a year of practice. Provided also that a candidate may not appear in Part II until he has passed in Part I of the Examination.

The subjects of study and the scheme of examination are as follows:—

### PART I

(a) Microbiology including Bacteriology, Immunology and Serology, Filterable Viruses and the Rickettsias, Medical Entomology, Protozoology and Helminthology (one paper).

(b) Public Health, Chemistry and Physiology (Bio-Chemistry and Bio-Physics) applied to Public Health (one paper).

### PART II

(c) Hygiene and Sanitation including Sanitary Engineering (one paper).

(d) Epidemiology and Infectious Diseases (one paper).

(e) Sanitary Law, Vital Statistics and Public Health Administration (one paper).

The examination may be written, oral and practical and shall include Food Inspection and Sanitary Inspection of factories, schools, premises or areas.

In order to pass the examination a candidate must obtain 50 per cent. in each paper of both the parts.

*Diploma in Ophthalmic Medicine and Surgery.*—The examination shall be held annually. It shall be divided into two parts, Part I and Part II. The course of study is open to any Bachelor of Medicine or Licentiate in Medicine and Surgery.

*Doctor of Medicine, Master of Surgery, Master of Obstetrics.*—These are examinations by theses supplemented by written, oral and practical examinations. They are open to such Bachelors of Medicine as fulfil certain specified conditions.

*Doctor of Science (Public Health).*—This is an examination by thesis supplemented by written examination. The candidate may be required to undergo an oral and practical examination at the discretion of the examiners. It is open to any Bachelor of Medicine or Licentiate in Medicine and Surgery who obtains a Diploma in Public Health or passes an examination equivalent to it and fulfils certain other specified conditions.

## ENGINEERING

1. *Intermediate Examination in Engineering.*—It is a two years' course. The subjects of study and the scheme of examination are as follows: Section A: Mathematics, Chemistry and Physics and two practical tests in Chemistry and Physics. Section B: Mathematics and Applied Science, Mechanical and Electrical Engineering, Civil Engineering (Materials of Construction, Details of Construction), Estimating, Surveying and Drawing. There are four papers and two practical tests in Section A and nine papers and five practical tests in Section B. The minimum marks for a pass is  $33\frac{1}{3}$  per cent. in each group and 50 per cent. in the aggregate.

2. *Degree of Bachelor of Engineering.*—It is a two years' course after the Intermediate Examination in Engineering. Candidates may choose any one of the following branches of Engineering: Civil, Mechanical, Electrical, Mining.

**Civil Engineering.**—

*Part I.*—Mathematics, Geology and Mineralogy, Applied Mechanics and Graphics, Technical Chemistry, Estimating, Prime Movers, Electrical Engineering.

*Part II.*—Roads and Railways, Irrigation and Public Health, Engineering, Applied Mechanics, Hydraulics, Geodesy, Structural Design. Attested Designs for Engineering Works and Buildings, Principles of Architectural Design.

**Mechanical Engineering.**—

*Part I.*—Mathematics, Science—Technical Chemistry, Applied Physics.

*Part II.*—Group I: Theory of Mechanics, Heat Engines, Hydraulics and Hydraulic Machinery, Machine and Engine Design (paper). Group II: Strength and Elasticity of Materials, Metallurgy, Theory of Structures, Structural Design. Group III: Workshop (Sessional Work), Works Management and Accounts. Group IV: Mechanical Engineering Laboratories, Machine and Engine Design (Sessional), Structural Design (Sessional).

*Aeronautics.*—(Alternative subject in the course of studies for the B.E. Examination in Mechanical Engineering.)

**Mining Engineering.**—

*Part I.*—Mathematics, Science, Geology and Mineralogy, Applied Physics, Technical Chemistry.

*Part II.*—Group I: Applied Mechanics and Hydraulics, Mining I, Mining II. Group II: Mechanical Engineering (including Laboratory work) and Electrical Engineering (including Laboratory work). Group III: Attested Designs for Engineering works and Buildings and practical drawing.



## Electrical Engineering.—

*Part I.*—Mathematics, Science—Technical Chemistry, Applied Physics.

*Part II.*—Group I: Electrical Engineering. Group II: Heat Engines, Hydraulics, Applied Mathematics, Modern Systems of Works Management and Accounts. Group III: Drawing and Design. Group IV: Mechanical Engineering (Laboratory, Sessional) and Electrical Engineering (Laboratory, Sessional). Group V: Electrical Engineering, Design (Sessional).

In order to pass, a candidate has to obtain  $33\frac{1}{3}$  per cent. in each group of subjects and 50 per cent. of the aggregate. 66 per cent. of the marks in Professional Section is required for a First Class.

*Degree of Bachelor of Metallurgy.*—It is a three years' course after passing the I.Sc. Examination with Physics, Chemistry and Mathematics, or a two years' course after passing the B.Sc. Examination with Physics, Chemistry and Mathematics. The subjects of study and the scheme of examination are as follows:—Section A: same as Section A of Intermediate Examination in Engineering; Section B: Group I—Mechanical Engineering including theories of steam and internal combustion engines and strength of materials (Theoretical and Practical), Electrical Engineering (Theoretical, Laboratory and Sessional), Drawing (Theoretical, Practical and Sessional); Group II: Physical Chemistry (Theoretical and Practical), Geology and Mineralogy (Theoretical and Practical), Dressing of Minerals and Refractory Materials; Group III: Fuels, General Metallurgy and Iron-founding, Foundry and Pattern-making, Chemical Analysis and Calorimetry (Practical). Final Examination—Group I: Metallurgy of Iron and Steel, Furnace Design and Drawing (Sessional and Practical); Group II: Metallurgy of Non-Ferrous Metals, Electro-Metallurgy, Metallurgical Analysis and Assaying (Theoretical and Practical); Group III: Metallography, Heat Treatment and Pyrometry (Theoretical, Practical and Sessional), Mechanical Working and Testing of Metals. The pass marks for Section B and Final Examinations are one-third in each group of subjects and 40 per cent. of the aggregate in each section.

*Intermediate Examination in Architecture.*—Two years' course after passing undergraduate course of one year's course after passing the B.Sc. Examination with Mathematics, and Physics and Chemistry or Geology or Chemistry, Physics or Geology in which case a candidate shall be excused from appearing in those subjects in Section A of the Examination in which he appeared at his B.Sc. Examination, but he shall not be declared to have passed in Section B of the examination unless he has qualified himself in the remaining subjects of

Section A. The subjects of study and scheme of examination are as follows:—

*Section A*—Group I: Mathematics; Group II: Freehand and Geometrical Drawing; Group III: Physics and Chemistry (Theoretical and Practical).

*Section B*—Group I: Architectural Theory; Group II: Electrical Engineering (Theory and Laboratory) and Architectural Design; Group III: Construction; Group IV: Surveying (Theoretical and Practical) and Estimating. The pass marks in each section shall be one-third in each group and half of the aggregate.

*Degree of Bachelor of Architecture*.—Two years' course after passing the Intermediate Examination in Architecture. The subjects of study and scheme of examination are as follows:

*Section A*—Group I: History of Indian Architecture and Iconography, Indian Order Composition, Modelling (Session work only); Group II: Applied Mechanics, Reinforced Concrete; Group III: Hygiene and Sanitation.

*Section B*—Group I: Building Construction (Paper and Sessional Drawing); Lighting and Heating, Professional Practice; Group II: History of Indian Architecture and Iconography, Indian Order Composition; Group III: Architectural Design (Paper, Note-Books and Attested Design). The pass marks for each section shall be one-third in each group of subjects and half of the aggregate.

*Doctor of Science (Engineering)*.—This is an examination by thesis which may be supplemented by an examination, written, practical, oral or all. If the thesis is approved, the candidates are admitted to the Degree of Doctor of Science (Engineering).

#### MILITARY STUDIES

Two grades of certificates will be issued for examination in Military studies: (i) Junior and (ii) Senior. The examinations are open only to Members of the University Training Corps. No one who has not passed the Junior Certificate Examination at least two years previously shall be eligible for admission to the Senior Certificate Examination. Both the examinations are divided into two parts—theoretical and practical, each carrying 100 marks. The theoretical portion shall include: *for the Junior Examination*, (i) Military Hygiene and Camp Sanitation, (ii) Map Reading and Field Sketching, (iii) Discipline and *esprit de corps*, (iv) History of the Army in India, (v) Badges and Symbols of Rank of the Fighting Forces, (vi) Characteristics of Infantry Weapons, and (vii) Organization of the Army in India; *for the Senior Course*, (i) Selected Campaigns of the Great War, (ii) Organization and Administration of an Infantry

Unit in Peace and War, (iii) Rolls of the Armed Forces of the Empire, (iv) Characteristics of Military Weapons, (v) Imperial Military Geography with special reference to India, and (vi) Duties in aid of Civil Power. The practical portion shall be based on drill with and without arms, weapon training and tactical training, and shall be divided into: (i) General Training, (ii) Weapon Training, and (iii) Collective Training. Each candidate in order to be successful must pass the practical and theoretical portions separately and obtain at least 30 per cent. in each. Candidates obtaining 60 per cent. or over shall be declared to have passed with distinction. Credit of the marks obtained in excess of 60 is allowed to be added to this aggregate of the marks obtained by the candidates appearing at the I.A., I.Sc., B.A., B.Sc., B.Com., I.E., or B.E. examinations provided certain conditions are fulfilled.

*Agricultural Education.*—The University has recently opened an Agricultural Institute at Burrackpore, about 16 miles away from Calcutta. The Institute possesses about 125 bighas of land and imparts training in Agriculture more on a practical line than academical. The course of instruction is of 3 years and Matriculates are eligible for admission to the course. The different sections in which training is imparted are as follows: (i) Agricultural Section; (ii) Dairy and Poultry Section; (iii) Industrial Section.

### Scale of Fees

	Rs.
*Matriculation .. .. .	15
†Intermediate Examination .. .. .	30
‡Bachelor of Arts (Pass) .. .. .	45
§Bachelor of Arts (Hons.) .. .. .	55
Bachelor of Commerce .. .. .	45
Master of Arts .. .. .	80
Doctor of Philosophy .. .. .	200
†Intermediate in Science .. .. .	30
‡Bachelor of Science .. .. .	45
§Bachelor of Science (Hons.) .. .. .	55
Master of Science .. .. .	80
Doctor of Science .. .. .	200

	Rs.
* Fee for appearing in one subject only under certain conditions .. .. .	8
† Fee for appearing in one subject only under certain conditions .. .. .	15
‡ Fee for appearing in one subject only under certain conditions .. .. .	23
§ Fee for appearing in one subject only under certain conditions .. .. .	28

	Rs.
Certificate in Tanning .. ..	25
Licentiate in Teaching .. ..	30
Bachelor of Teaching .. ..	40
Diploma in Spoken English .. ..	50
English Teachership Certificate Examination ..	10
Teachers' Training Certificate Examinations—	
General .. ..	10
Science .. ..	10
Geography .. ..	10
Bachelor of Law—	
Preliminary .. ..	30
Intermediate .. ..	30
Final .. ..	30
Master of Law .. ..	200
Doctor of Law .. ..	200
Preliminary Scientific M.B. Examination (Old Regulations) ..	30
First M.B. (Old Regulations) .. ..	30
Second M.B. (Old Regulations) .. ..	25
Third M.B. (Old Regulations) .. ..	25
Final M.B. (Old Regulations) .. ..	25
First M.B. (New Regulations) .. ..	50
Final M.B. (New Regulations)—	
Part I .. ..	40
Part II .. ..	40
Doctor of Medicine .. ..	200
Master of Surgery .. ..	200
Master of Obstetrics .. ..	200
Diploma in Public Health .. ..	200
Diploma in Ophthalmic Medicine and Surgery ..	200
Doctor of Science (Public Health) .. ..	200
Intermediate Examination in Civil Engineering ..	40
Do. do. for Section A .. ..	40
Bachelor of Engineering .. ..	50
Do. Non-Professional Section .. ..	30
Bachelor of Metallurgy—	
Section A .. ..	25
Section B .. ..	40
Final .. ..	50
Intermediate Examination in Architecture—	
Section .. ..	25
Whole Examination .. ..	40
Bachelor of Architecture—	
Section A .. ..	30
Section B .. ..	30
Final Examination .. ..	40
Doctor of Science (Engineering) .. ..	200

# **Dacca University**

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## **Introductory: Character of the University**

The University of Dacca owes its origin to three factors: first, the desire of the Muslims of Eastern Bengal to stimulate the educational progress of their community; secondly, the desire of the Government of India to create a new type of residential and teaching University in India as opposed to the prevailing affiliating type; and thirdly, the desire of the Government to relieve the congestion of the University of Calcutta. Though the movement in favour of a separate University for Eastern Bengal began so early as 1912 and the Committee appointed to frame a scheme reported in the course of the year, the outbreak of War in 1914 led to a postponement and the appointment of the Calcutta University Commission was utilized to subject the proposals of the Committee to the scrutiny of the Commission. The Commission reported strongly in favour of the establishment of a University in Dacca and endorsed the proposal that the University should be a unitary University as opposed to a federal or affiliating University, and that it should be a teaching and residential University. Before its inception there were two Colleges in Dacca affiliated to the University of Calcutta. With the creation of the University in July 1921, these were converted into Intermediate Colleges and all higher teaching beyond the Intermediate stage within the area was undertaken by the University. At the same time three Halls of residence were founded. The Dacca University was also the first University to place Intermediate classes outside the University in special institutions called Intermediate Colleges.

In one respect the University has a characteristic feature: special representation on University bodies is given to the Muslim community and two Halls, the Salimullah Muslim Hall and the Fazlul Haq Muslim Hall, are specially provided for Muslim students.

The University is unitary in character and the whole of the teaching is centrally organized. The University has also made a new departure in initiating a Tutorial system for all categories of students. The Tutorial classes are intended to counteract the inevitable evils of the examination room and by encouraging originality and individual effort to ensure as far as possible that each student will learn something of intellectual production as

well as of reproduction, so that when he enters the world, he will not find himself for the first time confronted with intellectual problems to which he has not been taught the answers beforehand.

Further, the University authorities have throughout recognized that in addition to providing facilities for higher teaching and for the advancement of learning and research, they should ensure that residence in the University provides for its alumni a valuable preparation for life and for public service. With this purpose in view they have organized four residential units in Halls under the control of Provosts and have fostered the development of corporate student life in each Hall by the formation of Student Unions and Athletic Clubs.

### Officers and Staff of the University

#### CHANCELLOR

His Excellency the Governor of Bengal

#### VICE-CHANCELLOR

Dr. R. C. Majumdar, M.A., P.R.S., Ph.D.

#### TREASURER

Mr. A. M. Ahmad, B.C.L. (Oxon.).

#### REGISTRAR

Khan Bahadur Naziruddin Ahmad, M.A.

#### PROVOSTS

Prof. S. N. Bose, M.Sc.

Khan Bahadur Prof. Mahmood Hasan, M.A., B.L. (Cal.),  
M.A., D.Phil. (Oxon.), Bar-at-Law.

H. D. Bhattacharya, M.A., B.L., P.R.S.

Dr. Md. Shahidullah, M.A., B.L. (Cal.), Dip.Phon. (Paris),  
Docteur de l' Université, Paris.

#### DEANS

Arts	..	Mr. P. B. Junnarker, M.A., LL.B.
Science	..	Prof. N. M. Basu, D.Sc.
Law	..	Mr. P. C. Ghose, M.A., B.L. ( <i>Temporary</i> ).
Agriculture	..	Mr. M. Carbery, D.S.O., M.C., M.A., B.Sc., I.A.S.

## PROCTOR

Prof. S. M. Hassain, M.A., D.Phil. (Oxon.).

## LIBRARIAN

Manoranjan Ray, M.A., B.L.

## MEDICAL OFFICER

Dr. S. K. Mitra, B.Sc., M.B. (Cal.), M.R.C.P. (Edin.),  
D.T.M.H. (Eng.), D.P.H. (Lond.).

## ASSISTANT MEDICAL OFFICER

Dr. Saifuddin Ahmad, M.B. (Cal.).

## TEACHING STAFF

## English

.. *Professor and Head of the Department:*  
Prof. Mahmood Hassan (Khan Bahadur), M.A., B.L. (Cal.), M.A., D.Phil. (Oxon.), M.R.S.L. (Lond.), Bar-at-Law, Diploma in Phonetics (A.P.I. Paris).

*Reader:* Dr. S. N. Roy, M.A., ph.D. (Lond.).

*Lecturers Class I:* Praphulla Kumar Guha, M.A., B.L.; J. N. Chaudhuri, M.A.; Dr. Sukumar Ganguly, M.A., ph.D.; and Miss Jean Mackay, M.A. (Lond.).

*Lecturers Class II:* Manmatha Nath Ghosh, M.A.; Santosh Kumar Chatterjee M.A.; Miss Charupama Bose, M.A.; Amalendu Bose, M.A.; and Mr. M. Fazlur Rahman, M.A.

## Arabic and Islamic Studies

*Professor and Head of the Department:*  
Prof. S. M. Hassain, M.A. (Dac.), D.Phil. (Oxon.).

*Reader:* A. K. S. Marghoob Ahmad Taufiq, M.A., M.O.L. (Punjab).

*Lecturers Class I:* Abdul Aziz, M.A.; Sirajul Haque, M.A. (Dac.), ph.D. (Lond.); Moulana Zafer Ahmad Usmani; and Mr. Sheik Abdur Rahim, M.A., B.L., B.T.

*Lecturers Class II:* Abdus Subhan, M.A. (Alig.); and Khandaker Abdur Rahman, M.A., B.T.

- Persian and Urdu .. *Reader and Head of the Department:*  
Dr. M. I. Borah, M.A., B.L. (Dac.),  
ph.D. (Lond.).  
*Lecturers Class I:* S. M. Zafar Hussain  
Azad, B.A.; and W. H. A. Shadani,  
M.A. (Alig.), Ph.D. (Lond.).  
*Lecturer Class II:* Md. Abdus Samad,  
M.A., B.L. (Dac.).
- Sanskrit .. *Professor and Head of the Department:*  
Prof. S. K. De, M.A., B.L. (Cal.),  
D.Litt. (Lond.).  
*Lecturers Class I:* Probodh Chandra  
Lahiri, M.A. (Dac.), Ph.D. (Lond.);  
and Rakes Ranjan Sarma, M.A. (Dac.),  
M.A., Ph.D. (Cal.).  
*Lecturers Class II:* Rajendra Chandra  
Hazra, M.A. (Dac.).
- Bengali .. *Reader and Head of the Department:*  
Dr. Md. Shahidullah, M.A., B.L. (Cal.),  
dipl.phon. (Paris), Docteur de l'Uni-  
versite de Paris.  
*Lecturer Class I:* Mohit Lal Majumdar,  
B.A. (Cal.).  
*Lecturers Class II:* Ganesh Charan  
Basu, M.A. (Dac.); Jasimuddin, M.A.  
(Cal.); and Asutosh Bhattacharyya,  
M.A. (Dac.).
- Philosophy .. *Reader and Head of the Department:*  
Haridas Bhattacharyya, M.A., B.L.  
(Cal.).  
*Lecturers Class I:* Kshirode Chandra  
Mukherji, M.A. (Cal.); Benoyendra  
Nath Roy, M.A. (Cal.), Ph.D. (Dac.);  
Abdul Hadhy Talukdar, M.A. (Dac.  
and Lond.); and R. R. Sarma, M.A.  
(Dac. and Cal.), Ph.D. (Cal.), San-  
khyatirtha (Part-time).
- History .. *Professor and Head of the Department:*  
Prof. K. R. Qanungo, M.A., Ph.D.  
(Cal.).  
*Readers:* Dr. D. C. Ganguly, M.A.,  
(Dac.), Ph.D. (Lond.); and Dr.  
Mahumud Husain, Ph.D. (Heidel-  
berg).



*Lecturers Class I:* Dr. Sudhindra Nath Bhattacharyya, M.A., Ph.D. (Cal.), and Jyotirmoya Sen, M.A. (Dac.), B.A. (Oxon.).

*Lecturers Class II:* Dr. Prithwis Chandra Chakravarty, M.A. (Dac.), Ph.D. (Lond.); and Mr. Sashi Bhushan Chaudhry, M.A. (Dac.).

## Economics

.. *Professor and Head of the Department:* Prof. H. L. De, M.A. (Cal.), D.Sc. (Lond.).

*Lecturers Class I:* S. Vaidyanath Ayyar, M.A. (Mad.); Dr. K. B. Saha, M.A., Ph.D. (Cal.); Mati Lal Dam, M.A. (Cal.); and Dr. A. K. Das Gupta, M.A., Ph.D.

*Lecturers Class II:* Parimal Roy, M.A. (Dac.); Rakibuddin Ahmad, M.A.; Samor Rajan Sen, M.A.; Mazharul Huq, M.A.; and Muhammed Hussain, M.A.

## Political Science

.. *Reader and Head of the Department:* D. N. Banerjee, M.A. (Cal.).

*Lecturer Class I:* A. K. Sen, M.A. (Cal.).

*Lecturers Class II:* Dr. A. B. Rudra, M.A., B.L. (Dac.), Ph.D. (Lond.); Dr. A. K. Goshal, M.A. (Dac.), Ph.D. (Lond.); Nikhil Ranjan Roy, M.A. (Dac.) (*Temporary*); and Abdur Razzaq, M.A. (Dac.) (*Temporary*).

## Commerce

.. *Reader and Head of the Department:* P. B. Junnarkar, M.A., LL.B. (Bom.).

*Lecturer Class I:* Bibhuti Bhushan Sen, M.A. (Dac.).

*Part-Time Lecturer:* A. C. Roy, B.A., F.S.A.A. (Lond.).

*Lecturers Class II:* Nirmalendu Sengupta, B.Com. (Dac.), M.A. (Cal.); and Md. Safiullah, B.Com. (Dac.), M.A. (Cal.).

## Mathematics

.. *Professor and Head of the Department:* Prof. Nalini Mohan Basu, D.Sc. (Cal.).

*Reader:* T. Vijayaraghavan, B.Sc., D.Phil. (Oxon.).

*Lecturers • Class I:* Dhirendra Nath Ganguly, M.A. (Cal.); Hrishikesh Sircar, D.Sc. (Cal.); and Subodh Chandra Mitra, M.A., Ph.D. (Cal.).

*Lecturers Class II:* Hirendra Mohan Sen Gupta, M.A. (Dac.); and Bimal Chandra Bhattacharyya (Part-time).

## Physics

.. *Professor and Head of the Department:* Prof. Satyendra Nath Bose, M.Sc. (Cal.).

*Readers:* Dr. S. R. Khastgir, Ph.D., D.Sc. (Edin.); and Dr. K. Banerjee, D.Sc. (Cal.).

*Lecturer Class I:* Bhabani Charan Guha, M.Sc. (Cal.).

*Lecturers Class II:* Quazi Motahar Hussain, M.A. (Cal.); Hariprasanna Mukherjee, M.Sc. (Cal.); Sasanka Sekhar Mukherjee, M.Sc. (Cal.); Surya Kanta Mukherjee, M.Sc. (Cal.); Phanindra Kumar Mitra, M.Sc. (Dac.); Susil Chandra Biswas, M.Sc. (Dac.); Sachindra Mohan Mitra, M.Sc. (Dac.); and Shah Md. Fazlur Rahman, M.Sc.

*Assistant to the Professor of Physics:* Chittaranjan Bose, M.Sc. (Dac.).

## Chemistry

.. *Acting Professor and Head of the Department:* Dr. J. K. Chowdhury, M.Sc., Ph.D. (Berlin).

*Reader:* Dr. Sarbani Sahay Guha Sarkar, D.Sc. (Lond.).

*Lecturers Class I:* Rajendra Lal De, M.Sc. (Cal.); R. M. Purakayastha, M.Sc. (Cal.); Dr. S. P. Roychoudhury, Ph.D.; and Jogesh Chandra Sarma, M.Sc. (Cal.).

*Lecturers Class II:* Ranjit Kumar Chakravorty, M.A. (Cal.); Bholanath Saha, M.Sc. (Cal.); Paresch Chandra Banerjee, M.Sc. (Cal.); Dr. Satish Chandra De, D.Sc. (Dac.); K. M. Chakraborty, M.Sc. (Dac.); M. Abdul Mannaf Bhuyan, M.Sc. (Dac.); and Bipin Chandrakar, D.Sc. (Dac.).

*Assistant to the Prof. of Chemistry:*  
Amarendra Nath Bose, M.Sc.  
*Laboratory Assistant:* Kamadaranjan  
Kar, M.Sc. (Dac.).

Biochemistry .. *Lecturers:* Dr. K. P. Basu, D.Sc. (Dac.),  
Ph.D. (Munich); and Sachindranath  
Sarkar, M.Sc. (Dac.).

Agricultural  
Chemistry *Soil Chemist:* Dr. J. N. Chakraborty,  
M.Sc., Ph.D.  
*Research Asst. in Agric. Chemistry:*  
Md. Sulaiman, M.Sc.

Physiology .. *Lecturers:* Dr. S. K. Mitra, B.Sc., M.B.,  
M.R.C.P., D.T.M., D.P.H. (*Part-time*);  
Dr. Madhab Chandra Nath, D.Sc.  
(Dac.).  
*Demonstrator in Physiology:* Tajendra  
Nath Sen, M.B. (Cal.).

Soil-Science .. *Agric. Research Chemist:* Dr. A. T.  
Sen, M.Sc. (Cal.), Ph.D. (Lond.).  
*Lecturer in Soil Microbiology:* Dr. P. K.  
De, M.Sc. (Dac.), Ph.D. (Lond.).  
*Lecturer in Colloid Chemistry:* Dr. T. P.  
Banerjee, D.Sc. (Dac.).  
*Lecturer in Agric. Chemistry:* Dr. M.  
Osman Ghani, M.Sc. (Dac.), Ph.D.  
(Lond.).  
*Demonstrator in Soil Science:* S. K.  
Bhattacharyya, M.Sc. (*on leave*);  
Bhupendra Chandra Deb, M.Sc.  
*Demonstrator in Agric. Chemistry:*  
Muhammad Hatem Ali, B.Sc. (Dac.).  
*Demonstrator in Physics:* Jyotirinooy  
Bhattacharyya, M.Sc. (Dac.).

Biology .. *Reader in Botany and Head of the  
Department:* Dr. P. Maheshwari, D.Sc.  
(Alld.), F.A.Sc., F.N.I.  
*Lecturers in Botany:* Dr. Nirmal Kumar  
Chatterji, M.Sc., D.Phil. (Alld.); and  
Dr. Nani Lal Pal, M.Sc., D.Sc. (Alld.).  
*Lecturer in Zoology:* Dr. Radhanath  
Mukherji, M.Sc. (Luck.), D.I.C.  
(Lond.), Ph.D. (Dublin).

*Demonstrator in Botany:* Reayat Khan  
M.Sc. (Alig.).

## Agriculture

.. *Prof. and Hony. Head of the Department:* M. Carbery, D.S.O., M.C., M.A., B.Sc. I.A.S. (*Director of Agriculture, Bengal*).

*Reader:* W. M. Clark, M.B.E., B.Sc. I.A.S. (*Principal, Bengal Agricultural Institute*).

*Lecturers Class I:* S. C. Roy, B.A., B.Sc. (Hons.) (Agric.) (Wales); S. P. Sen Gupta, B.Ag. (Bom.); and F. U. Ahmad, M.Sc. (Bot.), M.Sc. (chem.), M.A. (Agric. Econ.), B.T. (Alig.).

*Lecturers Class II:* C. C. Dean, N.D.D.; Md. Abdul Quader, M.Sc. (chem.) (Dac.); Amir Husain, M.Sc. (chem.) (Dac.); Md. Abdul Quayam, M.Sc. (Alig.); T. C. Roy, M.Sc. (Cal.); and B. G. Bagchi, B.E. (Cal.).

## Education

.. *Reader and Head of the Department:* K. D. Ghosh, M.A. (Oxon.), Dip.Edn. (Oxford), Bar-at-Law.

*Recognized Teachers:* H. C. Banerji, M.A., B.T.; A. Razzaq, M.A., B.T. (Dac.), Dip.Ed. (Edin.); S. N. Q. Z. Ali, B.A., B.T.; Abdul Moktader, M.Sc., B.T.; Dwijendranath Roy, M.Sc., B.L., B.T.; S. C. Chatterji (Passed Final Examination of Government School of Arts, Calcutta); P. Ganguli, B.A., Dip.Phys.Ed. (Trained in Scouting and First-Aid); and Dr. T. P. Bose, B.Sc., M.B.

## Law

.. *Professor and Head of the Department:* (Vacant).

*Lecturers Class I:* Amulya Kumar Datta Gupta, M.A., B.L. (Cal.); and Nirmal Chandra Pal, M.A., B.L. (Cal.).

*Part-time Lecturers:* Md. Ibrahim, B.L. (Cal.); and Sultanuddin Ahmed, M.A., B.L. (Dac.).

### Constitution of the University

The principal governing bodies of the University are:—

- (1) The Court which is a large body of *ex-officio*, elected and nominated members and which has the power of passing new Statutes, subject to the final approval of the Chancellor, and cancelling new Ordinances, made by the Executive Council. It also has the power of reviewing and passing resolutions on the annual budget and report. Further, it has the power to pass any resolution making such recommendations as it thinks fit relating to the University Act, Statutes, Ordinances and Regulations and to the management of the University generally.
- (2) The Executive Council, which is the Executive Body of the University, regulates and determines all matters concerning the University in accordance with the Act, Statutes and Ordinances, and in particular, controls the finances of the University.
- (3) The Academic Council is the Academic Body of the University and has the general control and is responsible for the maintenance of standards of instruction, education and examination within the University.

The subsidiary bodies are:—(1) The Faculties of Arts, Science and Law, each of which is in charge of the teaching and the courses of study and research work in subjects assigned to it. Each faculty comprises the related departments of teaching and the Head of every such department is the Professor of that department or, if there is no Professor, the Reader. The Head of the Department is responsible to the Dean of Faculty for the organization of the teaching in that department; (2) Board of Residence, Health and Discipline; this Board is entrusted with matters relating to the residence, health and discipline of students; (3) Committees of Courses of Study; English, Sanskrit, Bengali, Arabic and Islamic Studies, Persian and Urdu, Philosophy, History, Economics, Political Science, Education, Mathematics, Commerce, Chemistry including Physiology and Botany, Physics and Law. (4) Board of Co-ordination: this consists of the Vice-Chancellor, the Deans of the Faculties and the Registrar and its function is to organize the teaching of the University and, in particular, to co-ordinate the work and time-tables of the various faculties and to assign lecture rooms, laboratories and other rooms of the faculties.

The Officers of the University are: the Chancellor, the Vice-Chancellor, the Treasurer, the Provosts, the Registrar, the Deans of the Faculties, the Proctor, the Librarian and the Medical Officer. The Vice-Chancellor is the principal Executive and Academic Officer of the University.

### Number of Students in the University under the Different Faculties on the 31st March 1941

Arts	..	I B.A.—323; II B.A.—323; III B.A.—92; I M.A.—132; II M.A.—159; I B.Com.—59; II B.Com.—53.
Science	..	I B.Sc.—124; II B.Sc.—144; III B.Sc.—28; I M.Sc.—20; II M.Sc.—42; I B.Sc. (Agriculture)—21; II B.Sc. (Agriculture)—22.
Law	..	I Law 33; II Law 24; III Law 34.
Research Students	..	25.
Education	..	B.T.—115; I.T.—Nil.
Medicine students of Dacca School of Medicine who take Physics and Chem- istry in the Uni- versity	..	163.

### Number of Successful Candidates in the Different Examinations held in 1940-41

Arts	..	Ph.D.—nil; M.A. (Part II)—109; M.A. (Part I)—114; B.A. (Hons.)—70; B.A. (Ordinary)—151; B.Com.—43.
Science	..	Ph.D.—1; D.Sc.—2; M.Sc. (Part II)—31; M.Sc. (Part I)—17; B.Sc. (Hons.)—20; B.Sc. (Ordinary)—68; B.Sc. (Hons.) (Part I)—nil; B.Sc. (Agriculture)—16.
Law	..	B.L. (Final)—23.
Education	..	B.T.—104.

### Scholarships and Medals

There are: (1) five research studentships each of the value of Rs. 50 per month, tenable for one year in the first instance but renewable for a second year, subject to good conduct and receipt of a satisfactory report from the Head of the Department concerned on the work undertaken by the student; one of these studentships is specially meant for the Chemistry Department.

If in any session no student belonging either to the Muslim community or to the backward classes obtains a Research studentship under the ordinary conditions, in any Department other than the Oriental Studies Departments, one Research Studentship for each of these communities is instituted, provided candidates who have obtained first class either in the Honours or Master's Degree Examination or have shown definite aptitude for research prior to their being recommended for research studentships, are forthcoming: (2) twenty-six post-graduate scholarships varying in value from Rs. 20 to Rs. 40 per month and tenable for one year only, six of which are reserved for Muslim students, three for students of backward communities and three for women students; (3) three special Government Law Scholarships tenable for two years reserved for Muslims and members of backward classes in Eastern Bengal; (4) Senior Under-graduate Scholarships and Stipends.

There are also a number of stipends from an annual donation of Rs. 1,000 made by the Hon'ble Nawab Bahadur of Dacca, and from the proceeds of a special endowment of about Rs. 16,000 called the Nawab Ali Chowdhuri Trust Fund for Muslim students. Several prizes and medals are also awarded on the results of the different University examinations. There are also special allotments at the disposal of the Provosts of the four Halls for the grant of stipends to the students of their respective Halls. A sum of Rs. 700 is provided for stipends reserved for the students of backward classes of the University. A sum of about Rs. 1,000 is provided for stipends reserved for women students.

### Library, Museums and Laboratories

The University Library contains 83,614 volumes and above 21,400 manuscripts, and the total estimated expenditure on the additions since the foundation of the University is over Rs. 2 lakhs. Each Department of Study has its own library for the use of Honours and M.A. students. There is also a Poor Students' Section of the general library. Besides, each residential Hall has a small library of its own.

The Manuscript Section of the Library which was started in September 1925, now contains a valuable collection of Sanskrit and Bengali Manuscripts. Some very important acquisitions have been made on Purana, Itihasa, Kavya, Nataka, Jyotisha, Tantra as also a Bengali translation of the Mahabharata. A detailed catalogue of the collections is under preparation and the Manuscripts are being utilized by research workers, both in

and outside the Dacca University. There is also an Oriental Text Publication Committee.

Another Committee was appointed during the session 1928-29 for the collection of Arabic, Persian, Urdu and Punthi manuscripts. The Committee has already made a fair collection of rare and valuable manuscripts.

There are six laboratories, *viz.*, the Physical Laboratory, the Chemical Laboratory, the Psychological Laboratory, the Physiological Laboratory and the Botanical Laboratory, and the Laboratory for Agricultural Chemistry. All these are well equipped and are fit for advanced practical work.

There is a Students' Museum in connection with the advanced study of Indian History. In 1922, a capital grant of Rs. 1,000 was sanctioned by the Executive Council for a collection of historical objects for teaching purposes. Accordingly, electro-types of 15 old coins of Greek and Scythian rulers of N.W.-India and 10 old coins of Siladitya were purchased from the Lucknow Museum and a large number of casts of the old coins of ancient Hindu Kings such as Chandragupta I, Samudragupta, Chandragupta II, Kumaragupta, Skandagupta, Prakasaditya, Nora Baladitya, Kumaragupta II, Vishnu, Sasanka and also of the ancient States of Ayodhya, Avanti, Kosala, Taxila, Malava and other States have been purchased from the Archaeological Section of the Indian Museum, Calcutta. Besides, a considerable number of photographs of ancient sculpture and architecture have been procured. These have been kept in the Dacca Museum to which the students of the University have full access and to which the University makes an annual grant.

### Provision for Research

The number of research students during 1940-41 was 27. Research work has been carried on actively in all departments by teachers and students.

### Publication and Extension Work

The University arranges every year for the delivery of a number of popular lectures which are open to the public without fee.

The following public lectures were delivered during the session 1940-41 :—



Name of Lecturer	Subject	Date and Time	Place
1. Dr. P. N. Ghosh, M.A., Ph.D., sc.D., Professor and Head of the Department of Applied Physics, University College of Science, Calcutta, and President of the Industrial Survey Committee	"Science and Social Life"	Friday, 23rd August 1940, 4 P.M.	Curzon Hall
2. Dr. S. P. Ray Choudhury, Ph.D. (Lond.), Lecturer in Chemistry	"Reclamation of Alkali Lands"	Saturday, 14th December 1940, 3-35 P.M.	Chemistry Lecture Theatre
3. Mr. Reayat Khan, M.Sc. (Alig.), Demonstrator in Botany	"Biological Aspect of Human Personality and its Educational Significance"	Tuesday, 14th January 1941, 6-30 P.M.	Do.
4. Mr. K. D. Ghosh, M.A. (Oxon.), Principal, Teachers' Training College, Dacca	"The World after the War"	Saturday, 18th January 1941, 6-30 P.M.	Curzon Hall
5. Dr. Madhab Chandra Nath, D.Sc. (Dac.), Lecturer in Physiology	"Knowledge of Modern Science in Ancient India"	Monday, 20th January 1941, 6 P.M.	Chemistry Lecture Theatre
6. Mr. A. Mukhtader, M.Sc., B.T., Lecturer, Teachers' Training College, Dacca	"A Peep into the remotest part of the Earth"	Wednesday, 19th February 1941, 6-30 P.M.	Salimullah Muslim Hall, Assembly Hall

7. Mr. P. Ganguly, B.A., B.T., Physical Instructor, Teachers' Training College, Dacca	" Significance of Sportsmanship "	Friday, 21st February 1941, 6-30 P.M.	Teachers' Training College, Dacca
8. Dr. S. Hedayetullah, M.Sc., Ph.D. (Lond.), Economic Botanist, Bengal	" Agricultural Seeds "	Wednesday, 26th February 1941, 6-30 P.M.	Chemistry Lecture Theatre
9. Mr. S. N. Q. Zulfaqar Ali, B.A., B.T., Professor, Teachers' Training College, Dacca	" Psycho-Analysis in Education "	Wednesday, 5th March 1941, 6-30 P.M.	Teachers' Training College, Dacca
10. Dr. K. M. Chakrabarty, D.Sc., Lecturer in Chemistry	" The Motor Vehicles and their new fuels "	Friday, 7th March 1941, 6-30 P.M.	Chemistry Lecture Theatre
11. Dr. S. R. Khastuir, Ph.D., P.Sc., Reader in Physics	" The World of Sound "	Tuesday, 11th March 1941, 6-30 P.M.	Do.
12. Mr. Asutosh Bhattacharyya, M.A., Lecturer in Bengali	" Baisnava Lyric Poetry "	Wednesday, 12th March 1941, 3-40 P.M.	Gallery Room, University Central Buildings

\* These lectures were illustrated by lantern slides.

The University has published the following Bulletins which may be had of the Registrar, Dacca University, Ramna, Dacca :—

<i>No.</i>	<i>Name</i>	<i>Name of Author</i>
1.	Lokayata ..	Mahamahopadhyaya Hara- prasad Sastri, M.A., D.Litt., C.I.E.
2.	On the Plot of "A Mid- summer Night's Dream"	Dr. U. C. Nag, M.A.
3.	Early History of Bengal (out of print)	Prof. R. C. Majumdar, M.A., Ph.D.
4.	Eastern Humanism ..	Prof. Sylvain Levi.
5.	The Tests of the Stanford Revision of the Binet- Simon Intelligence Scale	S. Pal.
6.	Absorption of the Vratyas	Mahamahopadhyaya Hara- prasad Sastri, M.A., D.Litt., C.I.E.
7. and 8.	Not published.	
9.	On Two Problems in Shakespeare—Hamlet and Troilus and Cressida	P. K. Guha, M.A.
10.	Philosophy and History ..	G. H. Langlay, M.A.
11.	The Character of Gawain	Dr. B. K. Roy, M.A., Ph.D.
12.	Meaning of Art ..	Dr. Rabindranath Tagore.
	The Idealistic School in Buddhism	Prof. Tucci.
	Meditative and Active India	Prof. Formichi.
13.	The Construction of Read- ing Material for Teaching a Foreign Language.	Dr. Michael West, M.A., D.Ph.
14.	Word Frequency in Ben- gali and its Relation to the Teaching of Reading	P. C. Deb Chaudhuri, M.T.
15.	Arab Invasion of India	Dr. R. C. Majumdar, M.A., Ph.D.
16.	Old English Morphology	Dr. B. K. Ray, M.A., Ph.D.
17.	History of the Paramara Dynasty	Dr. D. C. Ganguli, M.A., Ph.D. (Iond.).
18.	Concepts of Riti and Guna	Dr. P. C. Lahiri, M.A., Ph.D.
19.	Early Arabic Odes ..	Dr. S. M. Hossain, M.A. (Dac.), D.Phil. (Oxon.).
20.	Studies in the Puranic Records on Hindu Rites and Customs	Dr. R. C. Hazra, M.A., Ph.D.
21.	The Art of War in Ancient India	Dr. P. C. Chakraborty, M.A., Ph.D.

The Oriental Text Publication Committee of the University has published the following books which may be had of the Secretary, Oriental Text Publication Committee, Dacca University, Ramna, Dacca :—

No.	Name	Name of Author
1.	Kīchakavadha of Niti Varman (D.C. pp. i-xxvii + 128) a ślesa yamaka kavya—composed by an eastern writer belonging to a period anterior to the tenth century A.D.	Critically edited from two manuscripts with the commentary of Janardanasena, and an introduction, notes, appendices, etc., by Dr. S. K. De, M.A., D.Litt. (Lond.), 1929.
2.	Harivamśa of Bhavānanda (pp. i-xcii + 292) a Bengali poem of great interest composed about sixteenth century A.D.	Edited from several manuscripts with an elaborate introduction, word index, etc., by Satischandra Ray, M.A., 1339 B.S.
3.	Padyavalī of Rūpa Goswāmin (D.C. pp. i-cxxxv + 296) a disciple of Caitanya of Bengal—an important anthology of Vaishnava Sanskrit verses (sixteenth century A.D.).	Edited from 16 manuscripts with an exhaustive introduction on Caitanyaism and Caitanya movement, critical notes, bibliographical notes on authors and appendices, by Dr. S. K. De, M.A., D.Litt. (Lond.), 1934.
4.	Ādikānda of the Bengali Rāmāyaṇa of Krittivāsa.	Critically edited from original manuscripts with an introduction, notes, etc., by Dr. N. K. Bhattasali, M.A., Ph.D.
5.	Krishnakarnamrita of Līlāsuka (pp. i-lxxxvii + 384) a mediæval Vaishnava devotional poem in Sanskrit (Bengal Recension) with three Sanskrit commentaries of the Bengal Vaishnava School, the Krishnavallabha of Gopala Bhatta, the Subodhini of Caitanyadasa and the Sarangarāga of Krishnadasa Kaiviraja.	Critically edited with an expansion, introduction and appendices containing additional verses given in the South Indian version as well as in the Bilvamangala Korakavya, the Krishna-stotra and other works, by Prof. S. K. De, M.A. D.Litt. (Lond.), 1938, Rs. 6.

### University Training Corps

The Secretary of State for India has sanctioned a corps of two platoons for this University which had been started with effect from July 1928, and the Government have made provision for the necessary funds. It has been styled by the Military Authorities as the 12th (Dacca) Coy. Khan Bahadur Captain M. Hasan, M.A., D.Phil. (Oxon.), Bar-at-Law, Professor and Head of the Department of English, is the Officer Commanding, and is the Adjutant of the Corps. Regular parades are being held and it is reported by the authorities that the Corps has already made satisfactory progress in military tactics.

### Associations in the University

There are twelve Associations in the University, *viz.*, the English Association, the Arabic and Islamic Studies Association, the Persian and Urdu Association, the Sanskrit Association, the Bengali Association, the Economic Association, the Philosophical Society, the Historical Association, the Law Association, the Physical Society, the Mathematical Society and the Science Colloquium for Chemistry. Papers are read and Lectures are delivered before these Associations at intervals.

There is also a University Students' Union of which all students of the University and some teachers are members. The affairs of the Union are controlled by a Committee consisting of a President, a Vice-President, a Secretary and three students and one teacher-representative from each Hall and one teacher nominated by the Vice-Chancellor.

Each Hall carries on its corporate activities through a Hall Union and different societies of its own.

### Dacca University Studies

The University publishes a journal called "Dacca University Studies" which contains contributions by the Staff and students of the University. The publication of the journal has been entrusted to a Council and ordinarily two issues of the journal are published each session.

### Cost of Living

The actual cost of living in a Hall may roughly be estimated at Rs. 10 or Rs. 12 for food in addition to class fee and seat rent. The seat rent varies from Rs. 2 to Rs. 4 and this includes the cost of light, water, medical attendance, medicine and servants. An under-graduate student can live in a Hall and pay for his class fees with a total sum of Rs. 20 to Rs. 22 per mensem. The Provosts of Dacca and Jagannath Halls are

empowered to permit twenty poor and deserving students to reside in these Halls free of seat rent, preference being given to students belonging to scheduled castes. The Provost of Salimullah Muslim Hall is also empowered to permit 20 poor and deserving students to reside in the Hall free of seat rent and to allot 10 per cent. of the seats in the Hall extension as rent free.

### **Budget: Revenue Receipts and Expenditure**

The following figures show the total revenue receipts and expenditure during 1939-40 and 1940-41 and the estimated receipts and expenditure for 1941-42.

Year	Receipts			Expenditure		
	Rs.	A.	P.	Rs.	A.	P.
1939-40 (actuals) ..	10,14,304	4	0	9,75,238	3	5
1940-41 (actuals) ..	10,91,162	7	11	10,07,482	7	8
1941-42 (estimate) ..	10,25,000	0	0	10,61,742	0	0

### **Provident Fund**

According to Statute 20 relating to the Dacca University Provident Fund, all persons appointed to a permanent post in the service of the University of which the pay is not less than Rs. 25 per mensem, except those holding pensionable posts under Government and menials, are required to subscribe, to the Provident Fund  $8\frac{1}{3}$  per cent. of their salary every month, and the University contributes an equal amount every month. The rate of subscription will be  $6\frac{1}{4}$  per cent. in the case of those who are appointed in and after 1939-40.

### **Women's Education**

There is a women students' residence. The total number of women students in the various classes during the session 1940-41 was 92 and a number of them resided in the Women Students' residence. Miss Charupama Bose is the Lady Superintendent. Further, a Common Room for women students has been provided within the University Buildings, and this has been suitably furnished.

### **Students' Information Bureau and its Activities**

There is a University Students' Information Bureau which supplies students who desire to go abroad for studies with advice and information relating to foreign Universities and the required qualifications of the students. The Bureau consists of the Vice-Chancellor (President), the Commissioner of the Dacca

Division, the Collector of Dacca, the Provosts of the four Halls, two members of the teaching staff with experience of foreign Universities appointed by the Academic Council, Principals of the different Intermediate Colleges and the Dacca School of Engineering and the Superintendent of the Dacca Medical School. Dr. M. Husain, Ph.D. (Heidelberg), is the Secretary of the Bureau.

### **Provision for Safeguarding Health, Medical Inspection, etc.**

All students are entitled to free medical attendance by the Medical Officer. Every under-graduate is medically examined on admission to the University and required to take part regularly in physical drill and gymnastics or pursue such course of physical training prescribed by the Medical Officer as may be suited to his requirements under the supervision of a Physical Director and two Physical Instructors.

### **Admission to University, Courses of Study, Degrees and Examinations**

The University offers in Arts the B.A. Degree (Pass and Honours) and the Master's Degree; in Science, the B.Sc. Degree (Pass and Honours) and the Master's Degree; in Agriculture, the B.Sc. Degree and the Degree of B.Ag. The Professional Degrees are Bachelor of Teaching, Master of Teaching, Bachelor of Commerce, Bachelor of Law, Master of Law; The Doctor's Degrees are: Ph.D., D.Sc., D.Litt. and D.L.

#### **ADMISSION TO COURSES OF STUDY**

Admission to a course of study for a Bachelor's Degree is granted only to those who have passed the Intermediate Examination of an Indian University or of a Board of Secondary and Intermediate Education, or who possess an equivalent qualification. For the higher Degrees admission is given, under conditions, to graduates of recognised Indian and Foreign Universities. Special provision is made for admission of teachers as "external candidates" to the examinations for the following degrees: B.A. (Pass), M.Sc. (in Mathematics only) and M.A.

#### **COURSES OF STUDY AND DEGREES**

##### **ARTS**

(1) *B.A. (Pass)*.—The course of study extends over two academic years and a candidate for the Degree must pass a prescribed test in English Composition and is required to offer a Modern Indian Language and *three* other subjects to be taken

from the following in prescribed combinations:—(i) Islamic Studies, (ii) Arabic, (iii) Persian, (iv) Urdu, (v) Sanskrit, (vi) Bengali, (vii) English, (viii) History, (ix) Philosophy, (x) Economics, (xi) Political Science, (xii) Mathematics, (xiii) Commerce. The examination consists of one paper in the candidate's Modern Indian Language and *three* papers, each of three hours' duration, in each of the other selected subjects. The minimum for a pass is 36 per cent. of the aggregate and 33 per cent. in any one subject. For distinction a candidate must pass in all subjects at the same examination and obtain 60 per cent. of the aggregate and 40 per cent. in each subject. The University Test in English Composition forms a part of the B.A. Ordinary Examination.

Candidates who fail in one subject only or one subject and the University Test in English Composition, but obtain in the aggregate sufficient marks for a pass, are permitted to enter for that subject only or that subject and the University Test in English Composition as the case may be at the next examination; but if they fail a second time, they are required to enter again for the whole examination.

(2) *B.A. (Honours)*.—The course of study extends over three academic years. A candidate for Honours has to pass a prescribed test in English Composition and is required to select ONE of the following subjects as his Principal Subject and Two others as Subsidiary Subjects from a prescribed list of subjects allowed as subsidiary in the case of each Principal subject: (i) Islamic Studies, (ii) Arabic, (iii) Persian, and Urdu, (iv) Sanskrit, (v) Bengali, (vi) English Language and Literature, (vii) History, (viii) Philosophy, (ix) Economics, (x) Political Science and (xi) Mathematics. The examination consists of eight papers of four hours each on the principal subject and three papers, each of three hours' duration, on each of the subsidiary subjects.

Candidates for an Honours Degree in Philosophy have to pass a Practical examination in Psychology.

There is a *viva voce* examination for all Honours Schools. In order to qualify for Honours, not less than 33 per cent. must be obtained in each subsidiary subject and not less than 40 per cent. of the total marks in the principal subject. Candidates obtaining 60, 45 and 36 per cent. of the total marks are placed respectively in the First, Second and Third Class.

Candidates who fail to obtain Honours may be granted the Ordinary Degree if they secure a minimum of 33 per cent. of the total marks in the principal subject and a minimum of 33 per cent. of marks in each subsidiary subject.

(3) *M.A.*—For ordinary Bachelors of Arts and Bachelors of Arts with Honours of other approved Universities having a



two years' Honours course, the course of study extends over two academic years. Such graduates are permitted at their option to take the M.A. Examination in two parts, *viz.*, Part I examination not earlier than at the end of the first year of their admission and the Part II examination not earlier than at the end of their second year. Each part of the examination comprises four papers each of four hours' duration in all subjects except in Philosophy and Economics in which subjects the Part I examination comprises three papers and Part II examination five papers. The papers are selected by the Head of the Department concerned. For Bachelors of Arts with Honours of this University or of a University having a three years' Honours course and Masters of Arts of any approved University in the subjects in which they present themselves in this University, the course extends over one year only and they qualify themselves for the M.A. Degree by passing in the Final Examination, comprising four papers (in Economics five papers) each of four hours' duration. Bachelors of Commerce are admitted to M.A. (in Economics) under special conditions.

The subjects of study and examination are: (i) Arabic, (ii) Islamic Studies, (iii) Persian and Urdu, (iv) Sanskrit, (v) Bengali, (vi) English Language and Literature, (vii) History, (viii) Philosophy, (ix) Economics, and (x) Mathematics. 100 Marks are allotted to each paper. Candidates obtaining 60, 45 and 36 per cent. of the total marks are placed respectively in the First, Second and Third Classes. If any candidate obtains less than 25 per cent. of the marks in any paper, these marks are not counted.

There is a *viva voce* examination for all candidates for the M.A. Examination.

There are two alternate courses of study, Course A and Course B, for the degree of Master of Arts. Course A consists of 8 papers each of 4 hours' duration and extends over a period of two years. This course is open to candidates who have obtained the ordinary degree of Bachelor of Arts of this or of any approved University.

Course B consists of 4 papers each of 4 hours' duration and extends over a period of one year. This course is open to Bachelors of Arts with Honours of this University or of a recognized University having a three years' Honours course.

(4) *Doctor of Philosophy (Ph.D.)*.—The degree of Doctor of Philosophy (Ph.D.) may be conferred upon (i) persons who have taken the M.A. degree of this University and who are of not less than two years' standing and (ii) persons who have taken the degree of M.A. in an approved University and are of not less than two years' standing. A person who has taken the M.A. Degree in the Third class either in this University or in

an approved University shall not be admitted as a candidate for the degree of Doctor of Philosophy of this University except with the special permission of the Academic Council given on the recommendation of the Faculty of Arts.

(5) *Doctor of Literature (D.Litt.)*.—A candidate for the degree of Doctor of Literature (D.LITT.) must have previously obtained the degree of Master of Arts or the degree of Doctor of Philosophy in the Faculty of Arts in this University or the equivalent of the PH.D. degree of any recognised University.

Provided that a teacher in actual service of the University possessing either an M.A. or PH.D. Degree of another University may be permitted to supplicate for the D.LITT. degree with the special permission of the Academic Council given after report from the Faculty of Arts.

### SCIENCE

(1) *B.Sc. (Pass)*.—The course of study extends over two academic years. Candidates for this Degree have to attend a course of instruction in English Composition and produce a certificate of satisfactory progress from the Head of the Department of English and they must take up any of the following three groups:—

GROUP A	GROUP B	GROUP C
Physics	Physics	Physics
Chemistry	Chemistry	Chemistry
Mathematics	Physiology	Botany

The examination consists of three papers in Mathematics and two papers and a six hours' practical examination in each of the other subjects.

The minimum for a pass is 36 per cent. of the aggregate, 33 per cent. in Mathematics, and 40 per cent. in the practical and 30 per cent. in the theoretical examination in Physics, Chemistry, Botany and Physiology. For distinction a candidate must pass in all subjects at the same examination and obtain 60 per cent. of the aggregated and 40 per cent. in each subject.

Candidates, failing in one subject but obtaining pass marks on the whole, can appear for that subject alone at the next examination only.

(2) *B.Sc. (Honours)*.—The course of study extends over three academic years. Every candidate has to attend a course of instruction in English Composition and produce a certificate of satisfactory progress from the Head of the Department of English and has to take up one of the three subjects: (i) Physics, (ii) Chemistry, and (iii) Mathematics, as his

Honours subject and two others as subsidiary subjects. The examination in the Honours subjects consists of five theoretical papers and three days' practical examination in Physics, four theoretical papers and four days' practical examination in Chemistry, and eight papers in Mathematics. The examination in the subsidiary subjects is the same as for the B.Sc. (Pass) in those subjects and may be taken at the end of the second year. Candidates must pass in a *viva voce* examination in their Honours subject.

Besides, there is a combined Honours course in Mathematics and Physics with no subsidiary subjects. This course consists of (a) fourteen theoretical papers in Mathematics and Physics, (b) a practical examination in Physics, constituting one paper, and (c) a *viva voce* examination.

The examination consists of two parts—Part I and Part II. Part I consists of a number of theoretical papers to be determined from time to time by the Academic Council and a practical examination in Physics, and Part II of the remaining theoretical papers, and a *viva voce* examination.

A student of the Honours course may take his examination in Part I at the end of his second academic year.

Honours results are published in three classes. Candidates obtaining 60, 45, and 36 per cent. of the total marks are placed respectively in the First, Second and Third Class. Candidates for the combined Honours course in Mathematics and Physics are required to obtain not less than 60, 45, and 36 per cent. of the total marks in the entire examination in order to be placed respectively in the First, Second and Third Class.

Candidates who fail to obtain Honours are allowed the ordinary Degree if their performance reaches the prescribed standard.

(3) *Master of Science (M.Sc.)*.—For ordinary Bachelors of Science and Bachelors of Science with Honours of other approved Universities having a two years' Honours course, the course of study extends over two academic years. For Bachelors of Science with Honours of this University or of a University having a three years' Honours course and Masters of Science of any approved University in the subject in which they present themselves in this University, the course extends over one year only. The examination for the M.Sc. Degree consists of two parts. Part I may be taken at the end of the first academic year or on subsequent occasions either alone or together with the M.Sc. Examination Part II which may be taken at the end of the second academic year and after. Except in the case of candidates whose course extends over one year only and who are required to take the Part II Examination only, no candidate

is admitted to the M.Sc. Degree\* who has not passed both the Part I and Part II Examinations. The subjects of examination are Physics, Chemistry and Mathematics.

The M.Sc. Examination Part I in Physics consists of three theoretical papers each of four hours' duration and each carrying 100 marks and a two days' practical examination and a *viva voce* examination carrying 150 and 50 marks respectively.

The M.Sc. Examination Part I in Chemistry consists of two theoretical papers each of four hours' duration and each carrying 100 marks, and a four days' practical examination and a *viva voce* examination carrying 75 and 25 marks respectively.

The M.Sc. Examination Part I in Mathematics consists of four papers carrying 100 marks each of four hours' duration.

In the M.Sc. Examination Part I the minimum pass marks are 30 per cent. of the total marks in the theoretical and 40 per cent. of the total marks in practical examination including *viva voce* examination in Physics and in Chemistry and 36 per cent. of the total marks in Mathematics. If a candidate obtains less than 25 per cent. of the marks in any theoretical paper, such marks are not counted.

The M.Sc. Examination Part II in Physics and in Chemistry consists of three theoretical papers each of four hours' duration and each carrying 100 marks and a four days' practical examination to which 150 marks are allotted and a *viva voce* examination to which 50 marks are allotted.

The M.Sc. Examination Part II in Mathematics consists of five papers each of four hours' duration carrying 100 marks each and a *viva voce* examination carrying 100 marks.

There are also some special courses for the Part II M.Sc. Examination consisting partly of written examination and partly of thesis examination.

No candidate is allowed to pass the M.Sc. Examination Part II in Physics or in Chemistry who does not obtain 30 per cent. of the total marks in the theoretical papers and 40 per cent. of the total marks in the practical examination including a *viva voce* examination, provided that if a candidate obtains less than 25 per cent. of the marks in any theoretical paper, such marks are not counted.

Candidates obtaining 60, 45 and 36 per cent. of the total marks are placed in the First, Second and Third Classes respectively.

(4) *Doctor of Science (D.Sc.)*.—This degree may be conferred upon first and second class Masters of Science of any approved University who are at least of three years' standing, and first class B.Sc.'s with Honours of this University who are

at least of four years' standing. Third class M.Sc.'s may be admitted with special permission. Every candidate must submit a thesis regarded by the examiners as forming a distinct contribution to the advancement of learning. Any candidate who has not taken one of the degrees of this University qualifying for D.Sc. has to pursue researches embodying his thesis in this University for two years. Candidates may be required to submit to a *viva voce* examination on the thesis. For the purpose of this section an M.A. Degree in Mathematics and a B.A. Degree in Honours Mathematics are regarded as equivalent to an M.Sc. Degree in Mathematics and a B.Sc. Degree in Honours Mathematics respectively.

(5) *Doctor of Philosophy (Ph.D.)*.—This degree may be conferred upon (1) persons who have taken in this University or in an approved University having a three years' Honours course, a first class B.Sc. Honours degree or a first class B.A. Honours degree in Mathematics, and are of not less than two years' standing; (2) persons who have taken an M.Sc. degree or an M.A. degree in Mathematics, in this University or in an approved University and are of not less than two years' standing; and (3) persons who have taken a second class B.Sc. Honours degree, or a second class B.A. Honours degree in Mathematics in this University or in an approved University having a three years' Honours course and are of not less than three years' standing.

Provided that a person who has taken the M.A. degree in Mathematics or the M.Sc. degree, in the third class, shall not be admitted as a candidate for the degree of Doctor of Philosophy except with the special permission of the Academic Council given on the recommendation of the Faculty of Science.

The degree shall not be conferred on the candidate unless at least an epitome of the thesis has been actually published, mentioning that it substantially contains the work, approved for the Doctorate degree of the University and a printed copy or copies be presented to the University Library.

#### FACULTY OF AGRICULTURE

A Faculty of Agriculture has been started with effect from the beginning of the session 1939-40. The course of studies is as follows:—

- (a) A two years' course of specialised pure science in the University of Dacca.
- (b) Students successfully completing this course are given the ordinary B.Sc. Degree and then proceed to the Institute at Manipur for their practical training in Agriculture or Animal Husbandry. After successfully

completing the practical course and passing an examination they are awarded the Degree of Bachelor in Agriculture or Animal Husbandry.

Students who have passed the I.Sc. Examination with Chemistry, Physics, Botany and Mathematics are eligible for admission. Only twenty-two students are admitted each session. The monthly tuition fee while at the University is at the rate of Rs. 8 a month for twelve months of the session.

#### PROPOSED FACULTY OF MEDICINE

In this last issue reference was made to the appointment by Government of a Committee to examine the scheme of instituting a Medical Faculty in the University. The Report of this Committee has since been published. The Committee has unanimously recommended the institution of a Medical Faculty in the University by converting the local Medical School into a Medical College. The report is under consideration by Government.

#### COURSES OF STUDY AND DEGREES LEADING TO PROFESSIONS TEACHING

(1) *Bachelor of Teaching (B.T.)*.—The course of study extends over one academic year. Every candidate has to give, under proper supervision, a course or courses of lessons in one or more of the special subjects prescribed for the L.T. Examination. The subjects of study and examination are the same as for the L.T. Examination with two additional subjects, *viz.*, Educational Measurements and General English. There may be a *viva voce* examination for any candidate and in the award of the Degree, the Examiners consider the official record of work of each student.

The minimum for a pass is 35 per cent. in each subject. The aggregate is 820 marks and the minimum for a First Class is 492 and for a Second Class, 328.

(2) *Master of Teaching (M.T.)*.—Bachelors of Teaching of Dacca or of any approved University are admitted to the M.T. course extending over two academic years. But third class B.T.'s are admitted only with the special permission of the Academic Council. Every candidate for the degree has to submit a thesis forming a distinct contribution to the advancement of learning and should pursue researches under proper supervision for at least two years, provided that a B.T. of any other approved University shall be required to have resided in this University for 180 days during his period of supervision. All candidates must further submit themselves to an examination (*viva voce*, written or both).

## COMMERCE

*Bachelor of Commerce (B. Com.).*—The course extends over two academic years, but for M.A.'s in Economics, it extends over one year only. Every candidate has to pass the prescribed test in English Composition and is required to study and be examined in the following subjects:—(i) Elements of Economics, (ii) Economic Geography, (iii) Business Organization, (iv) Trade and Transport, (v) Modern Economic Development, (vi) Commercial Law, (vii) Banking and Currency, (viii) Advanced Accounting and Auditing. Three papers are set in Advanced Accounting and Auditing and one paper in each of the other subjects.

The minimum for a pass is 40 per cent. of the aggregate and 30 per cent. in each paper. 60 per cent. of the aggregate entitles a candidate to a First Class.

## LAW

(1) *Bachelor of Law (B.L.).*—The course of study extends over three academic years except for Masters of Arts or Science of any approved University or Bachelors of Arts or Science with Honours of this University, who may take the whole course in two years.

There are two examinations, the Preliminary and the Final. The Preliminary Examination embraces the following papers, all of which are compulsory:—

Jurisprudence	..	..	1 paper
Roman Law	..	..	1 paper
Hindu Law	..	..	1 paper
Muhammadan Law and Law of Persons			1 paper
Constitutional Law and History of English Law	..	..	1 paper

The Final Examination embraces the following papers, all of which are compulsory:—

Law of Contracts and Torts	..	1 paper
Law of Real Property, Equity and Trusts	..	1 paper
Law of Transfer and Succession	..	1 paper
Land Laws of Bengal	..	1 paper
Law of Crimes	..	1 paper
Law of Evidence and Civil Procedure		1 paper

The minimum marks for a pass are 50 per cent. of the aggregate and 30 per cent. in each paper. Candidates obtaining 66 per cent. of the aggregate are placed in the First Class.

(2) *Master of Law (M.L.).*—This Degree may be taken by Bachelors of Law of Dacca or of any approved University.

The course of study or research<sup>1</sup> extends over two academic years. The subjects of examination come under seven groups, viz., (i) Jurisprudence, (ii) Hindu Law or Muhammadan Law, (iii) Roman Law, (iv) Private International Law, (v) and (vi) to be selected from a list of ten subjects, and (vii) Library Examination. The examination consists of nine papers, two on each of the first two groups and one on each of the remaining groups.

The Examination Committee may exempt a student from appearing for examination in any subject if he submits a dissertation of sufficient merit on such subject.

(3) *Doctor of Law (D.L.)*.—This Degree is conferred on Masters of Law of at least three years' standing who submit work carried out by themselves in this University and deemed as a distinct contribution to the advancement of knowledge in Law. Any candidate other than a Master of Law of this University has to pursue his researches in this University for at least two academic years. Candidates may be asked to submit to a *viva voce* and Library Examination on the subject of their dissertation.

### Table of Examination Fees

Name of Degree or Diploma	Rs.
B.A. (Pass), B.Com. . . . .	.. 35
B.A. (Honours) including Subsidiary Subjects	.. 55
B.A. Honours papers only . . . . .	.. 35
B.Sc. (Pass) . . . . .	.. 45
B.Sc. (Honours) including Subsidiary Subjects	.. 65
B.Sc. Honours papers only . . . . .	.. 45
The fee for examination or for re-examination in each subsidiary subject forming part of an Honours Course for the B.A. or B.Sc. examination . . . . .	.. 10
Honours School of Physics and Mathematics—	
Part I . . . . .	.. 25
Part II . . . . .	.. 40
As a whole . . . . .	.. 65
M.Sc. (Part I) . . . . .	.. 30
M.Sc. (Part II) (either by examination or by thesis)	.. 60
M.A. Course A (Part I) . . . . .	.. 30
M.A. Course A (Part II) . . . . .	.. 60
M.A. Course A (8 papers as a whole or in two parts for all students admitted prior to and during 1935-36)	.. 80



Name of Degree or Diploma	Rs.
M.A. Course A or Course B (4 or 5 papers) ..	.. 60
B.T. .. ..	.. 40
M.T. .. ..	.. 75
B.L. Examination—	
(i) Preliminary .. ..	.. 45
(ii) Final .. ..	.. 45
(iii) Supplementary .. ..	22-8
(iv) Taken as a whole .. ..	.. 90
M.L., D.L., PH.D., D.Sc. .. ..	.. 100
University Test in English Composition ..	.. 10

# Delhi University

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## Introductory : Character of the University

The University of Delhi owes its existence to the Report submitted by a Commission of educational experts presided over by Dr. Sadler (now Sir Michael E. Sadler, K.C.S.I.), Vice-Chancellor of the University of Leeds, appointed to report on the utility of, and to suggest improvements in, the constitution of the University of Calcutta. Though this Committee was nominally appointed only with reference to the needs and requirements of the Calcutta University, it was anticipated that its report would have a far-reaching effect, in that its recommendations might be adopted by the other Universities of India which were all cast in the same mould as the Calcutta University. The Sadler Commission recommended that the Calcutta University, and the other Universities of India instituted on the model of the London University as purely federal and examining bodies, should be reorganized, and that the Universities in India should, in future, be of a unitary and residential type.

Following this recommendation, the University of the Punjab commenced to consider reshaping its character and as the Delhi Colleges were then affiliated to that University, the Government of India felt the necessity of providing an independent University for the students of its Capital City. The Delhi University Act (Act VIII of 1922) was the result.

It was brought into force from the 1st May 1922 by a notification published in the *Gazette of India* dated 11th March 1922. The Governor-General of India in exercise of the powers conferred on him by the Transitory Provisions of the Act appointed Dr. (now Sir) Hari Singh Gour, Kt., M.A., D.Litt., D.C.L., LL.D., M.L.A., Barrister-at-Law of Nagpur, as the First Vice-Chancellor of the newly constituted University and issued a notification appointing a Provisional Executive Council.

The Provisional Executive Council met frequently in the months of May and June, and completed the temporary organization of the University. The Vice-Chancellor prepared draft Ordinances and Regulations which were laid before it and in parts passed after amendment. The rest were considered to be of no immediate urgency and were left to be dealt with by the respective permanent bodies concerned.

The three existing men's Colleges in Delhi were first recognized as Colleges of the University, *viz.*, St. Stephen's College, Hindu College and Ramjas College, their teaching staffs were accorded recognition in accordance with the terms of the Government of India Notification, as teachers of the University; the Faculties of Arts and Science were instituted; Readers were appointed and on 12th June 1922, an Academic Council was formed.

This Academic Council met constantly during term-time throughout the year. In order to secure adequate deliberation on its own projected courses and regulations, it adopted provisionally those in force in the University of the Punjab, which body also kindly undertook to conduct the examination of Delhi University students for the year 1923. The University has now its own courses of study and conducts its own examinations.

By the middle of February 1923 the Court was constituted. By the end of March the permanent Executive Council was formed. Thus by the end of summer of 1923, the University was fully organized. In May 1924, the Faculty of Law was instituted.

The original idea of the Delhi University was the establishment and incorporation of a unitary, teaching and residential University at Delhi. It was intended to provide for a local University on the model recommended, in the case of Dacca, by the Calcutta University Commission. But the University of Delhi, as it exists now, can hardly be called a purely unitary University inasmuch as it recognizes several constituent colleges in which instruction is provided under conditions prescribed in the Statutes and in which provision is made for the residence of students. Although it has been freed from the inevitable defects of a purely affiliating institution, yet at the same time it has given its constituent colleges ample scope to develop their resources in co-operation with each other and with the University itself. Since 1933 when the University was housed in the Old Viceregal Lodge, and plots of land in the Estate were earmarked for the constituent colleges, the idea of a federal university has gradually taken shape, and it is now the intention of the Government of India and of the authorities of the University, that the University should be transformed into one of the Federal type, in which each constituent college should be prepared to forego some measure of its autonomy in order to share in, and contribute to, the life and government of the University as a whole.

Teachers employed by each College are 'recognized' by the University.

A recognized teacher can impart instruction only in such subjects and to such classes as the Executive Council of the

University on the recommendation of the Committee of Selection permits. All recognized teaching in connection with the courses of study is conducted under the control of the University. The courses of study and the courses of reading are prescribed by Ordinances and Regulations respectively.

The jurisdiction of the University is restricted to a radius of ten miles from the Convocation Hall.

Upto 30th April 1927 and for such period as the Governor-General in Council may direct,\* the Matriculation is the Admission Examination, but the idea is to make the Intermediate the Admission Examination.

Upto 30th April 1927, and for such further period as the Governor-General in Council may direct, the constituent colleges of the University are allowed to maintain classes for the purpose of preparing students for the Intermediate Examination of the University. The following are the constituent Colleges of the University:—

- |                                |    |                                    |
|--------------------------------|----|------------------------------------|
| 1. St. Stephen's College       | .. | Teaching up to the M.A.            |
| 2. Hindu College               | .. | Do. do.                            |
| 3. Ramjas College              | .. | Do. do.                            |
| 4. Anglo-Arabic College        | .. | Do. do.                            |
| 5. Commercial College          | .. | Teaching up to the B.A.<br>(Pass). |
| 6. Indraprastha Girls' College |    | Do. do.                            |
| 7. Ramjas Inter. College       | .. | Teaching up to the Inter.          |

Prior to the commencement of the Delhi University Act the first three Colleges were affiliated to the University of the Punjab. The last three Colleges were under Section 4 (9) of the Act recognized by the University as Intermediate Colleges for a period ending with 20th April 1927, which has since been extended. The Anglo-Arabic College was allowed to open B.A. classes in October 1929 and the M.A. classes in May 1941. The Commercial College was allowed to open B.A. classes in 1932 and the Indraprastha Girls' College in 1937. The teaching staff of the constituent College is recognized by the University.

### Officers and Staff of the University

#### CHANCELLOR

His Excellency the Most Hon'ble Victor Alexander John Hope,  
Marquess of Linlithgow,

P.C., K.T., G.M.S.I., G.M.I.E., C.B.E., D.L., T.D.  
Viceroy and Governor-General of India.

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\* The Governor-General in Council has been pleased to extend the period up to 30th April 1943.

## PRO-CHANCELLOR

The Hon'ble Sir Girja Shankar Bajpai, K.B.E., C.I.E., I.C.S.,  
Ex-Education Member of His Excellency the Viceroy's  
Executive Council.

## VICE-CHANCELLOR

The Hon'ble Sir Maurice Gwyer, K.C.B., K.C.S.I., D.C.L.,  
Chief Justice of India, Delhi.

## RECTOR

Vacant

## TREASURER

Sir P. Raghavendra Rau,  
Additional Secretary to the Government of India  
in the Finance Department.

## REGISTRAR

Rai Bahadur N. K. Sen, M.A.

## DEAN OF THE FACULTY OF ARTS

Rai Bahadur N. K. Sen, M.A.,  
Registrar, University of Delhi.

## DEAN OF THE FACULTY OF SCIENCE

Dr. D. S. Kothari, M.Sc., Ph.D.,  
Reader in Physics.  
University of Delhi.

## DEAN OF THE FACULTY OF LAW

Rang Beharilal, Esq., (Senior), B.A., LL.B.,  
Advocate, Delhi.

## PROCTOR

S. Sen, Esq., M.A., Principal, Commercial College, Delhi.

## LIBRARIAN

A. Bhattacharyya, Esq., M.A., Hindu College, Delhi.

All teachers of the University are appointed or recognized by the Executive Council on the recommendations of a Committee of Selection, the constitution of which is prescribed by Statute.

The following is the teaching staff of the University, appointed and paid by the University:—

1. Dr. D. S. Kothari, M.Sc., Ph.D., University Reader in Physics and Head of the Department of Physics.
2. Dr. B. D. Laroia, B.A., Ph.D., D.I.C., Reader in Chemistry and Head of the Department of Chemistry.
3. M. S. Shahani, Esq., M.A., Bar-at-Law, Lecturer in Law and Senior Tutor.
4. Bishan Sarup, Esq., B.A., LL.B., Lecturer in Law.
5. Sarwar Hasan, Esq., M.A., LL.B. (Cantab.), Bar-at-Law, Lecturer in Law.
6. Rai Bahadur N. K. Sen, M.A., Reader in Philosophy and Head of the Department of Philosophy.
7. Bimal Das Jain, Esq., M.Sc., Assistant Lecturer in Chemistry.
8. Thakur Singh, Esq., M.Sc., Assistant Lecturer in Physics.

The following are the Principals of the Constituent Colleges of the University:—

1. Rai Bahadur S. N. Mukarji, M.A., Principal, St. Stephen's College.
2. N. V. Thadani, Esq., M.A., Principal, Hindu College.
3. Dr. S. Dutt, M.A., Ph.D., Principal, Ramjas College.
4. Abdul Latif Farooki, Esq., M.A., Principal, Anglo-Arabic College.
5. S. Sen, Esq., M.A., B.L., Principal, Commercial College.
6. Miss K. Gupta, M.A., Principal, Indraprastha Girls' College.
7. B. B. Gupta, Esq., M.A., Principal, Ramjas Intermediate College.

### Constitution of the University

The constitution of the University is defined by the Act and the Statutes. The Vice-Chancellor is the principal executive and academic officer of the University.

The following are the authorities of the University:—

1. The Court.
2. The Executive Council.
3. The Academic Council.
4. The Faculties of Arts, Science and Law.

The constitution and the terms of office of the members of the Court, the Executive Council, the Academic Council and the Faculties are prescribed by Statutes.

The Court consists of about 100 members. Its powers are:—

- (i) to make, amend or repeal Statutes,
- (ii) to consider and cancel Ordinances, and
- (iii) to consider and pass resolutions on the annual report, the annual accounts and the financial estimates.

The Executive Council is the executive body of the University. It consists of about twenty-one members and exercises among others the following powers:—

1. The control and administration of the property and funds of the University.
2. The institution of professorships, lectureships and other teaching posts as may be proposed by the Academic Council.
3. The appointment and recognition of teachers on the recommendation of the Committee of Selection.
4. The appointment of all examiners after considering the recommendations of the Academic Council.
5. The appointment of the officers (other than the Chancellor, Pro-Chancellor, Vice-Chancellor, Rector, and the Treasurer), the clerical staff and the servants of the University.
6. The arrangements for the holding of, and the publication of the results of, the University Examinations.
7. The making of Ordinances.

The Academic Council is the academic body of the University and subject to the provisions of the Act, the Statutes and the Ordinances, has the control and general regulation of, and is responsible for the maintenance of, standards of instruction, education and examination within the University. It advises the Executive Council, on all academic matters.

Each Faculty, subject to the control of the Academic Council, has charge of the teaching and the courses of study and the research work in such subjects as may be assigned to it by the Ordinances.

Each Faculty constitutes Committees of Courses and Studies in such subjects as are assigned to it. The Committees make recommendations for—

1. The courses of study, curricula and syllabuses.
2. The appointment of examiners.

### Number of Students in the University

#### Arts and Science—

		Nov. 1938	Nov. 1939
Post-Graduate (M.A.)	.. ..	116	143
B.A. (Pass and Honours) and B.Sc.	.. ..	817	879
Intermediate	.. ..	1,592	1,734
		<hr/>	<hr/>
		2,525	2,756
Law	.. ..	84	81
		<hr/>	<hr/>
		2,609	2,837

### Number of Successful Candidates in the University Examinations

The following was the number of successful candidates in the different examinations held in 1939:—

			Total No. of Candidates	No. of Successful Candidates
M.A.	..	..	60	33
B.A. Honours Course	..	..	37	32
B.A. (Pass)	..	..	395	254
B.Sc. (Pass)	..	..	70	50
I.A.	..	..	623	413
I.Sc.	..	..	163	97
			<hr/> 1,348	<hr/> 879
Law	..	..	101	83
			<hr/> 1,449	<hr/> 962

### Scholarships and Medals

There are at present the undermentioned scholarships for general merit.

The Academic Council has the power to make regulations for and to award in accordance with such regulations, fellowships, scholarships, exhibitions, bursaries, medals and other rewards.

No. of Scholarships	Class	Value
2	.. M.A.	Rs. 25.
2	.. M.Sc.†	Rs. 25.
5	.. B.A.	Rs. 10 <i>plus</i> tuition fee.
3	.. B.Sc.	Do. do.
1 (for women students)	B.A. or B.Sc.	Do. do.
6	.. I.A. & I.Sc.	Do. do.

In addition to the above there are the following special scholarships:—

1. Harichand Puranchand Khatri Scholarship of Rs. 12-8 per month awarded for one year to the best Hindu Khatri student who stands highest in the Matriculation or equivalent examination held in Delhi.

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† Transferable to M.A. under certain conditions.



2. Tulsanrani Harichand Puranchand Khatri Scholarship of Rs. 12-8 per month awarded for one year to the best Hindu Khatri student who stands first in the Faculty of Arts or Science Examination.

There are the following Medals and Prizes:—

*Medals—*

1. M. Makhan Lal Gold Medal of Rs. 100 is awarded to the best Hindu lady candidate in the University every year.

2. M. Bhola Nath Gold Medal of Rs. 100 is awarded every year to the best Hindu candidate in the B.A. Examination provided he knows Sanskrit.

3. L. Jageshar Nath Gold Medal of Rs. 100 is awarded every year to the best candidate in Law.

4. Rai Bahadur Brijmohanlal Saheb Memorial Gold Medal is awarded to the candidate who passes the Examination for the degree of Bachelor of Arts or Science of the University of Delhi with the highest percentage of marks.

5. Pt. Raghubar Dayal Gold Medal of Rs. 50 is awarded to the best candidate in Sanskrit at the M.A. or B.A. (Hons.) Examination.

6. Ravi Kanta Devi Gold Medal is awarded annually to the lady candidate who passes the Intermediate Examination of the University with the highest percentage of marks.

*Prizes—*

1. There is a prize called the Rector's Prize of the value of Rs. 150 awarded annually to the best under-graduate student in the form of books, instruments or apparatus for the encouragement of general knowledge and ability, on the result of an examination or test conducted by a Board of Examiners.

2. Hiralal Bhargava Prize of the value of Rs. 40 awarded annually to the best Bhargava student.

### Library, Museums, Laboratories

There is a Library containing over 31,300 books. Besides, each College has its own Library which is generally sufficient for under-graduate students. About Rs. 11,738 was spent in 1940-41 on the purchase of books. The Law section of the Library is well-stocked with up-to-date books and a fairly complete set of Law Reports, Indian and English.

The University took charge of Science (Physics and Chemistry) teaching for the degree classes in November 1923. The Laboratories are located in spacious buildings in the Old Viceregal Lodge and are fairly well equipped for B.Sc. teaching.

New buildings with larger accommodation are now under construction for Science Laboratories. Parts of the new Physics block have already been occupied, while a new wing of this block is being equipped and furnished for occupation in October 1941. The Chemistry block will be completed, it is hoped, early in 1942. With the increased accommodation and improved equipment of the new Laboratories, it will be possible for the University to raise the standard of instruction in Physics and Chemistry and to carry out its plans for the development of teaching of Science.

### **Provision for Research**

The University Fellowship in Economics or History of the value of Rs. 100 per mensem was instituted for the encouragement of research work. It is awarded for one or more years under prescribed conditions.

### **Military Training**

The University Training Corps was formed in 1924. It is the 9th (Delhi) Battalion of the 11/14 Punjab Regiment.

Students and members of the teaching staff are eligible for enrolment and remain in the Corps so long as they continue to be students or teachers of the University and conform to the requirements of the Corps.

The strength of the Battalion on 24th November 1939, was 5 officers, 3 under-officers and 308 other ranks.

The Corps has its annual camp in September and October each year.

### **Associations in the University**

A University Athletic Association has been formed to develop and conduct games and athletic and aquatic sports in the University. It also conducts the University Tournaments open to Colleges. Besides, the Constituent Colleges have a number of Societies, Clubs and Unions for social and intellectual intercourse.

### **Residence and Cost of Living**

Residence of students is provided by the different Constituent Colleges. The cost of living ranges from Rs. 15 to Rs. 30 per mensem.

### Budget: Provident Fund

The actual income and expenditure for 1938-39 and the budget estimates for 1940-41 were as follows:—

Year	Actual Income	Actual Expenditure
1938-39	Rs. 1,88,487	Rs. 1,87,683
	Budget Estimate	
	Income	Expenditure
1940-41	Rs 2,22,234	Rs. 2,23,074

Every employee of the University holding a substantive appointment and receiving a salary of Rs. 30 per mensem or more is required to join the University Provident Fund as a subscriber. Subscriptions to the Provident Fund are deducted monthly from the pay bill of each subscriber at the rate of 8 per cent. of his monthly pay. The University makes on behalf of each subscriber a monthly contribution to the Fund at the rate of 12 per cent. of the pay on which the amount of the subscription is calculated.

### Women's Education

There is a college for women students called the Indraprastha Girls' College. Owing, however, to the special conditions of Purdha obtaining in Delhi, provision has been made for permitting women students to appear in the examinations of the University without undergoing a regular course of study in a College of the University, under conditions determined by Ordinances

The Indraprastha Girls' College teaches only upto the B.A. Pass standard Arts subjects only. But some of the men's Colleges (St. Stephen's and Hindu) have made provision for the admission of women students to their Intermediate (Science) and Degree classes; and there are at present several women students studying in Degree and Post-Graduate classes in these Colleges.

There is a special scholarship of the value of Rs. 10 per month *plus* tuition fee for women students who prosecute their studies for a degree after passing the Intermediate Examination.

### Students' Information Bureau and its Activities

The University does not maintain a Students' Information Bureau.

## Provision for Safeguarding Health, Medical Inspection, Discipline, etc.

There is a Board which looks after the residence, health and discipline of students.

## Admission to the University, Courses of Study, Examinations and Degrees

The University offers in Arts, the degree of B.A. (Pass and Honours), and M.A.; in Science, the degree of B.Sc. (Pass); and in Law, the degrees of LL.B., LL.M. and LL.D.

### ADMISSION TO THE UNIVERSITY

It is intended that as soon as Intermediate Colleges are organized separately, admission to the University should be confined to those who have passed the Intermediate Examination of an approved University or Board but till this question is finally decided by the Government of India, Intermediate instruction will be provided also in the constituent degree Colleges of the University and during this period, therefore, students who have passed the Matriculation Examination of recognized Universities or Boards or equivalent examinations, are deemed eligible for admission to the University.

### COURSES OF STUDY AND EXAMINATIONS

#### ARTS

*Intermediate Examination.*—The course is one of two years' duration after passing the Matriculation Examination of any University or a recognised Board. Every candidate is required to take four subjects only in either of the two following groups:—

#### GROUP A (General)

*Compulsory Subjects*—

1. English.
2. A Classical Language (Sanskrit, Arabic or Persian) or in the case of women candidates one of the Indian Vernaculars, Hindi, Urdu, Bengali or Punjabi. (These shall be regarded as elective subjects for those students who have not passed in any of the languages in the Matriculation or equivalent examination.)

*Elective Subjects* (two, or in the case of candidates who do not offer a second language, three of the following):—

1. Mathematics.
2. Physics (including Mathematics) (including a Practical test).

3. Chemistry (including a Practical test).
4. Philosophy.
5. History.
6. Economics.
7. Physiology and Hygiene (in the case of women candidates only).

Provided that the combination of Mathematics, Physics and Chemistry shall not be permissible as a group in the Faculty of Arts.

#### GROUP B (Special)

##### *Compulsory Subjects—*

1. English.
2. Economics.
3. Commerce.

##### *Elective Subjects (one of the following):—*

1. Mathematics.
2. History.
3. Philosophy.
4. A second language (Sanskrit, Arabic, Persian, Hindi, Urdu, Bengali or Punjabi).
5. Regional and Commercial Geography.

In addition to the four subjects in Group A or B there is an additional paper in Hindi, Urdu, Bengali or Punjabi which may be taken by any candidate.

The number of papers in each subject is two.

The minimum number of marks required for a pass is 33 per cent. in each subject and in paper (b) of English, and candidates obtaining 390 marks or more in the aggregate are placed in the First Division, and those obtaining not less than 290, in the Second Division, the aggregate maximum marks being 650.

Provision is made for candidates who have passed this examination and wish to qualify for admission to the Medical College to appear subsequently for additional test in those subjects which complete the group of subjects prescribed for admission to the Medical Colleges.

Any person who has passed an Oriental Titles Examination in Arabic, Sanskrit or Persian of the Punjab University or a Diploma Examination in any of these languages of an Indian University incorporated by any law for the time being in force, may be admitted to the Intermediate Examination in English only, if he has previously passed the Matriculation Examination and thereafter pursued a regular course of study in English for

two years in a College recognized by the University. He may be admitted to the B.A. (Pass) Examination if he has passed the Intermediate Examination or the English test for that Examination.

*Bachelor of Arts (Pass).*—The course extends over two years subsequent to passing the Intermediate Examination. Every candidate is required to study and be examined in *English with a vernacular\** (three papers) and *two* other subjects arranged in any one of the following groups:—

- (i) History and Economics.
- (ii) History and Philosophy.
- (iii) History and a Classical Language (Sanskrit, Arabic or Persian).
- (iv) Economics and Philosophy.
- (v) Philosophy and a Classical Language (Sanskrit, Arabic or Persian).
- (vi) Mathematics and Economics.
- (vii) Economics and a Classical Language (Sanskrit, Arabic or Persian).
- (viii) Mathematics and Philosophy.
- (ix) Mathematics and a Classical Language (Sanskrit, Arabic or Persian).
- (x) Economics and Commerce.
- (xi) History and Commerce.
- (xii) Mathematics and Commerce.
- (xiii) Mathematics and Physics.
- (xiv) Mathematics and Chemistry.

The minimum for a pass is 40 per cent. in English with a vernacular, 33 per cent. in the other subjects and 40 per cent. in the aggregate. Candidates who obtain 65 per cent. or more are placed in the First Division and those who obtain 50 per cent. or more in the Second Division.

*Bachelor of Arts (Honours Course).*—The course extends over two years after passing the Intermediate Examination. Honours Courses have been instituted in the following subjects: English, Mathematics, Economics, History, Sanskrit, Persian and Philosophy.

An Honours Course in a subject consists of:—

(a) One main subject (6 papers in English, Mathematics and Economics and 5 papers in each of the other subjects).

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\* Candidates whose vernacular is other than Urdu, Hindi, Punjabi or Bengali, are required to take an additional special paper in English instead of the vernacular.

(b) One subsidiary subject of 2 papers.

(In the case of Mathematics and Economics the subsidiary subject consists of one paper only.)

(c) A qualifying test in English in the case of Honours Courses in History, Economics, Philosophy, Sanskrit, Persian and Mathematics (2 papers in the case of Mathematics and one paper in all other cases).

(d) A qualifying test in the Vernacular (one paper) (except in Mathematics Honours Course for which it is optional).

Admission to the Honours Courses is made in each case by an Admission Committee appointed for the purpose.

No student who has not secured at least a second class in his Intermediate Examination is ordinarily admitted to an Honours Course.

A student seeking admission to an Honours Course in a subject shall normally have secured 55 per cent. marks in that subject in his Intermediate Examination.

If a student is found unsuitable for the Honours Course he may be sent back to the Pass Course before the end of the first year.

The Qualifying Test in English and in the Vernacular may be taken at a Preliminary Examination held in the month of October immediately preceding the Final Examination.

The minimum number of marks required to pass the Examination in an Honours Course is 40 per cent. in the aggregate of the main subject; but if a candidate obtains less than 25 per cent. in any paper, his marks in that paper do not count towards the necessary aggregate.

For the Qualifying Test in English and in Vernacular 33 per cent. of marks is required to pass the examination.

Any student who has passed the Main Subject and in the Qualifying Tests but has failed in the Subsidiary Subject only, obtaining not less than 25 per cent. of marks may be admitted, if he applies within the prescribed time, to an examination in that subject only in October next, or if he fails to pass or fails to appear then, at the annual examination immediately after that, on payment on each occasion, of the same fees as are prescribed for the B.A. Honours Course Examination, and if he passes in the Subsidiary Subject, he shall be declared to have passed the B.A. Honours Course Examination of the year in which he passes in the Subsidiary Subject. If no application is made within the prescribed time he may be granted a Pass Degree.

A Pass Degree shall be granted to a candidate who has passed in the Qualifying Tests and in the Subsidiary Subject;

but has failed in the Main Subject provided that he has secured not less than 33 per cent. of the total marks in that subject.

*Master of Arts.*—The course of study extends over two years; but a candidate who has already taken the M.A. Degree in one subject may be permitted to take the examination one year after his passing the M.A. Examination. Also a candidate may be allowed credit for attendance and work at another University, provided he has pursued a regular course of study for one year in this University. A candidate for the M.A. Degree is required to study and be examined in *one* of the following subjects:—(1) Languages (English, Arabic, Sanskrit or Persian), (2) History, (3) Economics, (4) Mathematics and (5) Mental and Moral Philosophy.

Subject to the provision made for a dissertation or a thesis in lieu of one or more papers in certain subjects there will be six papers of three hours each in all subjects. The minimum number of marks for a pass is 45 per cent. in the aggregate, but if a candidate obtains less than 25 per cent. in any paper, his marks in that paper will not be credited to his aggregate. To pass the Examination in English, a candidate must obtain 40 per cent. or more in the Essay paper. Candidates who obtain 65 per cent. or more are placed in the First Class, and those who obtain not less than 50 per cent. in the Second Class, and others in the Third Class.

For the M.A. Examination in Sanskrit, Arabic and Persian, option has been provided for presenting a dissertation on some subject connected with Paper III of the Course. The dissertation may take the form of an exercise in critical editing.

For the M.A. Examination in History, provision has been made for the presentation of a thesis, under conditions prescribed in the Ordinances, in lieu of three written papers.

## SCIENCE

*Intermediate Examination.*—The course of study extends over two years after passing the Matriculation Examination of a recognized University or Board.

Every candidate is required to take four subjects in either of the two following groups:—

### GROUP A (Non-Medical)

- (a) English.
- (b) Mathematics.
- (c) Physics (including Mathematics) (including a practical test).
- (d) Chemistry (including a practical test).



## GROUP B (Medical Students' Group)

- (a) English.
- (b) Physics (including Mathematics) (including a practical test).
- (c) Chemistry (including a practical test).
- (d) Biology (including a practical test).

The number of papers in each subject is *two*.

The minimum for a pass is 33 per cent. in each subject and in paper (b) of English, and 25 per cent. in the practical test; and candidates who obtain 360 marks or more are placed in the First Division and those who obtain 270 marks or more are placed in the Second Division, the aggregate maximum marks being 600.

*Bachelor of Science.*—The course extends over two years after passing the Intermediate Examination in Science. A candidate is required to study and be examined in English (two papers of three hours each) and *one* of the following groups: (1) Mathematics and Physics, (2) Physics and Chemistry, (3) Mathematics and Chemistry (four papers of three hours in each group and a practical examination in the Science subjects). No candidate is allowed to offer any Science subject unless he has taken the corresponding subject in the Intermediate Examination and no candidate is allowed to take Physics and Chemistry, unless he has taken Mathematics in the Intermediate Examination.

The minimum number of marks for a pass is 33 per cent. in English and 40 per cent. in each of the Science subjects and in the Practical tests and 40 per cent. in the aggregate. Candidates who obtain 290 marks are placed in the First Division and those who obtain 210 marks or more in the Second Division, the aggregate maximum marks being 500.

## COURSES OF STUDY AND DEGREES LEADING TO PROFESSIONS

## LAW

*Bachelor of Laws.*—The course extends over three years and comprises of three examinations and is open only to graduates of this University or other recognized Universities. The following are the subjects for the different examinations, namely:—

(a) *Preliminary Examination*—

- (i) Jurisprudence and Roman Law;
- (ii) Constitutional Law of England and India;
- (iii) Law of Contracts and Specific Relief;
- (iv) Hindu and Muhammadan Laws.

**(b) Intermediate Examination in Law—**

- (i) Equity with special reference to Trusts and Mortgages.
- (ii) Law of Crimes including selected chapters of the Indian Penal Code.
- (iii) Law of Torts and Easements, with selected cases, English and Indian.
- (iv) Mercantile Law. Syllabus for this subject shall be prescribed from time to time out of the following branches of Law:  
Sale of Goods, Indemnity and Guarantee, Bailments, Agency, Partnership, Negotiable Instruments, Insurance, Companies, Patents and Trade Marks.
- (v) Public International Law or Conflict of Laws.

**(c) Final Examination in Law—**

- (i) Civil Procedure and Limitation.
- (ii) Criminal Procedure and Evidence.
- (iii) Pleadings and Conveyancing.
- (iv) Punjab Land Laws and Customary Law.
- (v) Minor Acts (Registration Act, Guardian and Wards Act, Majority Act, Stamp Act, Court Fees and Suits Valuation Acts and the Provincial Insolvency Act).

The minimum number of marks for a pass is 40 per cent. in each paper and 50 per cent. in the aggregate. Successful candidates are placed in the First and Second Classes only on the combined results of all the three examinations. Those who obtain 65 per cent. or more are placed in the First Division, and others in the Second Division.

*Master of Laws.*—Only those who have obtained a Bachelor's Degree in Law and are at least of three years' standing after graduation in Law are eligible for admission to the Examination or for the presentation of a thesis for the Degree of LL.M. The Degree may be obtained either by presenting a printed thesis on a subject approved by the Committee of Courses and Studies, or by passing an examination to be held in Delhi.

The subjects of study consist of: (1) Jurisprudence, (2) Equity and Trusts, (3) Principles of Legislation, (4) Constitutional Law, (5) Public and Private International Law, (6) Law relating to Parliamentary Institutions, and (7) and (8) *two* of the following:—(i) Roman Law and Law of Real and Personal Property, (ii) Hindu and Muhammadan Laws, (iii) Criminal Law, (iv) Law of Property, Transfer and Succession, (v) Law of Contracts and Torts, and (vi) Company Law and Law of Evidence.

There are eight papers of three hours each, and there is also a *viva voce* examination. A candidate must obtain 40 per cent. in each individual paper and 50 per cent. in the aggregate for a Pass and 60 per cent. for a First Class.

*Doctor of Laws.*—A Master of Laws of five years' standing may apply for this Degree and is required to state in his application the special subjects within the purview of the Ordinances for the Degree of LL.M. upon a special knowledge of which he rests his application for the Doctorate and to send with the application twelve printed copies of the thesis he has prepared on some branch of Law or History and Philosophy of Law.

### Scale of Examination Fees

	Rs.
Intermediate in Arts ..	25 + 3 for Science subjects.
Teachers and Ex-students	30 + 3 for Science subjects.
Intermediate in Science ..	30
Teachers and Ex-students	35
B.A. (Pass) ..	35
Teachers and Ex-students	40
B.Sc. (Pass) ..	40
Ex-students ..	45
B.A. Honours Course ..	55
M.A. and M.Sc. ..	60
Teachers and Ex-students	65
Preliminary Examination in	
Law ..	30
Ex-students ..	35
Previous Examination in	
Law or the Intermediate	
Examination in Law ..	60
Ex-students ..	65
Final Examination in Law	60
Ex-students ..	65

# **Lucknow University**

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## **Introductory: Character of the University**

The University is designed to be a unitary, teaching and residential University and this aim has been carried out by the University maintaining two colleges, formerly affiliated to the Allahabad University, *viz.*, the Canning College and the King George's Medical College, the former of which was transferred by the Canning College Act of 1922 and the latter along with the hospital was incorporated in March 1921 in the Lucknow University. Provision is made, however, for recognition of colleges not maintained by the University and at present, there are two such colleges, the Isabella Thoburn College and the Mahila Vidyalyaya College. These Colleges form the Women's Department of the University.

In addition to the regular teaching in connection with the University course provision is also made for tutorial and other supplementary instruction in Colleges and Halls under the control of the University.

## **Officers and Staff of the University**

### **CHANCELLOR**

H. E. Sir Maurice Garnier Hallett, K.C.S.I., C.I.E., I.C.S.,  
Governor of the United Provinces.

### **VICE-CHANCELLOR**

Lt.-Col. Raja Bisheshwar Dayal Seth, Rai Bahadur, B.Sc., M.L.A.

### **TREASURER**

Rai Bahadur Dr. B. N. Vyas, M.B.

### **REGISTRAR**

Mr. R. R. Khanna, M.Sc.

### **ASST. REGISTRAR**

Mr. I. U. Butt, B.A.

## DEANS

Arts	..	Prof. N. K. Sidhanta, M.A. (Cantab.).
Science	..	Dr. Birbal Sahni, M.A., Sc.D. (Cantab.), D.Sc. (Lond.), F.R.S.
Medicine	..	Dr. W. Burridge, D.M., M.A. (Oxon.).
Law	..	Dr. R. U. Singh, M.A., LL.B., S.J.D., M.L.C.
Commerce	..	Mr. B. N. Das Gupta, B.A., A.S.A.A., R.A., Incorporated Accountant.

## PROCTOR

Dr. A. C. Chatterji, D.Sc., Dr. Ing.

## LIBRARIAN

Dr. Radha Kamal Mukerjee, M.A., Ph.D., P.R.S.

## TEACHING STAFF

## FACULTY OF ARTS

English	..	<i>Professor</i> : N. K. Sidhanta, Esq., M.A. (Cantab.). <i>Readers</i> : R. R. Sreshta, Esq., M.A., LL.B. (Cantab.); Miss Nora Roy, M.A. (Luck.); F. T. Roy, Esq., M.A.; nine Lecturers and two Lady Teachers.
Philosophy	..	<i>Professor</i> : Dr. N. N. Sen Gupta, M.A., Ph.D. (Harvard). <i>Readers</i> : E. Ahmad Shah, Esq., M.A. (Alld.), B.Litt. (Oxon.), Dip. in Ed.; two Lecturers and two Lady Teachers.
History	..	<i>Professor (Indian History)</i> : Dr. Radha Kumud Mookerji, M.A., Ph.D. (Cal.), P.R.S. <i>Readers (Indian History)</i> : Dr. S. K. Banerji, M.A., L.T. (Alld.), Ph.D. (Lond.); Miss S. Chakko, M.A. (Mad.), M.Ed. (Chicago). <i>Reader (European History)</i> : S. N. Das Gupta, Esq., M.A. Three Lecturers and two Lady Teachers.
Political Science	..	<i>Professor</i> : Dr. V. S. Ram, B.A. (Hons.) (California), M.A., Ph.D. (Harvard), F.R.H.S.

- Readers:* V. K. Nandan Menon, Esq., B.A. (Hons.) (Mad.), M.A. (Oxon.); Dr. (Miss) R. C. Manchester, M.A. (Byrn. Maur.), Ph.D.; six Lecturers and one Lady Teacher.
- Economics and Sociology** *Professor:* Dr. Radha Kamal Mukerjee, M.A., Ph.D. (Cal.), P.R.S. *Reader:* Rai Bahadur Bhujanga Bhushan Mukherjee, M.A., B.L. (Cal.), P.R.S., F.E.S., four Lecturers and two Lady Teachers.
- Arabic** *Reader:* Dr. Mohammad Wahid Mirza, M.A. (Punj.), Ph.D. (Lond.); and one Lecturer.
- Persian and Urdu** *Reader:* Syed Masud Hasan Rizavi, Esq., M.A. (Luck.); four Lecturers and one Teacher.
- Sanskrit, Prakrit Languages and Hindi** *Reader:* K. A. Subramania Iyer, Esq., M.A. (Lond.); four Lecturers and two Teachers.
- Modern European Languages** *Part-time Lecturer in French:* K. A. Subramania Iyer, Esq., M.A. (Lond.). *Part-time Lecturer in German:* Dr. A. C. Chatterji, D.Sc. (Alld.), Dr. Ing. (Berlin).
- Department of Teaching** *Reader:* Miss S. Venkataratnam, M.A., L.T. (Mad.), M.A. (Mich.); and two Lady Teachers.

## FACULTY OF SCIENCE

- Physics** *Professor:* Dr. Wali Mohammad, M.A. (Punj.), B.A. (Cantab.), Ph.D. (Göttingen), I.E.S. *Reader:* Dr. D. B. Deodhar, M.Sc. (Alld.), Ph.D. (Lond.), F.P.S.; and four Lecturers.
- Chemistry** *Professor:* P. S. MacMahon, Esq., M.Sc. (Manchester), B.Sc. (Oxon.), F.I.C. *Reader:* Dr. S. M. Sane, B.A., B.Sc. (Alld.), M.A., Ph.D. (Berlin), F.C.S.; Dr. Syed Husain Zaheer, B.A. (Oxon.), Ph.D. (Heidelberg); Miss M. Wallace, B.A. (Minnesota), M.A. (Columbia); Seven Lecturers and one Teacher.

- Botany** .. *Professor:* Dr. Birbal Sahni, M.A., sc.D. (Cantab.), D.Sc. (Lond.), F.G.S., F.A.S.B., F.R.S.  
*Reader:* Dr. S. N. Das Gupta, M.Sc. (Cal.), Ph.D. (Lond.), D.I.C.; four Lecturers and one Lady Teacher.
- Zoology** .. *Professor:* Dr. K. N. Bahl, D.Phil. (Oxon.), D.Sc. (Punj.), F.R.A.S.B.  
*Reader:* Dr. G. S. Thapar, M.Sc. (Punj.), Ph.D. (Lond.); four Lecturers and one Lady Teacher.
- Mathematics** .. *Professor:* J. A. Strang, Esq., M.A., B.Sc. (Edin.).  
*Reader:* Dr. A. N. Singh, M.A., D.Sc. (Alld.); four Lecturers and one Teacher.

## FACULTY OF MEDICINE

- Anatomy** .. *Professor:* Dr. A. M. Khan, M.B.B.S., M.S.; and three Lecturers.
- Physiology** .. *Professor:* Dr. W. Burrige, M.A., D.M., B.Ch. (Oxon.), L.M.S., S.A. (Lond.); and three Lecturers.
- Forensic Medicine** .. *Part-time Reader:* Lt.-Col. D. Clyde, M.D., M.B., Ch.B., D.P.H., I.M.S.; and one Teacher.
- Pharmacology** .. *Reader:* Dr. Bir Bhan Bhatia, M.D. (Luck.), M.R.C.P. (Lond.); and two Lecturers.
- Pathology** .. *Professor:* Dr. Mohammad Abdul Hameed, M.B.B.S. (Alld.), M.D. (Luck.), M.R.C.P. (Lond.).  
*Reader:* Dr. V. S. Mangalik, M.D., B.S. (Luck.), D.C.P. (Lond.); and three Lecturers.
- Medicine** .. *Professor:* Rai Bahadur Hargovind Sahai, M.B.B.S.; one Lecturer and Medical Registrar.
- Surgery** .. *Professor:* Rai Bahadur Capt. Kali Sahai Nigam, M.D. (Alld.), F.R.C.S. (Edin.), D.T.M. (Lond.).  
*Readers:* S. N. Mathur, Esq., B.Sc., M.S. (Luck.), F.R.C.S. (Eng.); two Lecturers; and Surgical Registrar.

- Radiology .. *Reader*: Rai Bahadur Raghunandan Lal, M.B.B.S. (Punj.).
- Ophthalmology .. *Professor*: C. P. Misra, Esq., L.M.S. (Punj.); and one Lecturer.
- Obstetrics and Gynæcology *Professor*: Dr. Miss G. H. Marchant, D.O., M.S., F.R.C.S. (Edin.), F.R.C.S. (Eng.), M.D. (Lausanne), M.C.O.G.; and two Lecturers.
- State Medicine .. *Professor*: Dr. H. G. D. Mathur, B.Sc., M.B.B.S. (Alld.), M.R.C.P. (Edin.), D.T.M. & H. (Lond.), Dr.Ph. (John Hopkins University, Baltimore).

## FACULTY OF LAW

- Law .. *Whole-time Readers*: B. N. Srivastava, Esq., B.A., LL.B.; Dr. R. U. Singh, M.A., LL.B. (Alld.), S.J.D. (Harvard); and one Lecturer.
- Part-time Readers*: Pandit Jagmohan Nath Chak, B.A. (Oxon.), Bar-at-Law; K. S. Hajela, Esq., M.A. (Luck.), M.Sc., LL.B. (Alld.), LL.M. (Bom.), F.R.A.S., Advocate; Pandit K. P. Misra, M.A. (Oxon.), Bar-at-Law; and two part-time Lecturers.

## FACULTY OF COMMERCE

- Commerce .. *Reader*: B. N. Das Gupta, Esq., B.A. (Cal.), A.S.A.A., R.A., Incorporated Accountant; and two Lecturers.
- Economics .. *Reader*: B. N. Chatterji, Esq., M.A., B.L. (Cal.); and one Lecturer.

## ORIENTAL DEPARTMENT

- Arabic and Persian *Teachers*: Maulvi Mustafa Hasan Alavi, M.A. (Luck.), H.P. (Punj.), Fazil (Deoband), mulla (Alld.); Maulvi Ali Zainabi, H.A. (Punj.); and Syedul Ulama Maulana Syed Ali Naqi Naqvi; Fazil-i-Adab, Sadrul-Afazil, Mumtazul-Afazil, Ijtihad (Arabia).
- Sanskrit .. *Teachers*: Pandit Girish Chandra Avasthi, Vyakarana Acharya; and Pandit Ghootar Jha Shastri, Vedantacharya, Sahityacharya, Vyakarana, Nyaya and Kavya Tirtha.



### Constitution of the University

The officers of the University are: The Chancellor, the Vice-Chancellor, the Treasurer, the Proctor, the Registrar, the Librarian, the Deans of the Faculties, the Principal, King George's Medical College, the Principal, Isabella Thoburn College, and the Principal, Mahila Vidyalaya, College. The Vice-Chancellor is a paid whole-time officer of the University and is the principal executive and academic officer of the University.

The authorities of the University are the following: (1) The Court which consists of about 200 members. (2) The Executive Council which is the Executive Body of the University. (3) The Academic Council which is the Academic Body of the University and is responsible for the maintenance of standards of teaching and examination in the University. (4) The Committee of Reference which deals with items of new expenditure. (5) The Faculties which have charge of the teaching and the course of study and the teaching and research work in the subjects assigned to each Faculty.

### Number of Students in the University under Different Faculties during 1940-41

Faculty of Arts	.. 1,089	Faculty of Law	.. 491
„ Commerce	.. 145	Oriental Department in	
„ Medicine	.. 283	Arabic, Persian and	
„ Science	.. 375	Sanskrit	.. 238

### Number of Successful Candidates at the Different Examinations in 1941

#### ARTS

B.A. (Pass)—247; B.A. (Honours)—69; M.A. and M.A. (Part II)—186.

#### SCIENCE

B.Sc. (Pass)—66; B.Sc. (Honours)—3; and M.Sc.—48.

#### MEDICINE

M.D.—2; M.S.—2; M.B.B.S.—30.

#### LAW

LL.B. (Final)—181.

## COMMERCE

B.Com. (Final)—53.

DIPLOMA IN PSYCHOLOGY—7.

DIPLOMA IN MEDICAL RADIOLOGY AND ELECTRICITY—6.

## DIPLOMA IN ARABIC

Fazil-i-Adab—14; Alim—4; Fazil-i-Tafsir—2.

## DIPLOMA IN PERSIAN

Dabir-i-Mahir—9; Dabir-i-Kamil—14.

DIPLOMA IN TEACHING—10.

## DIPLOMA IN SANSKRIT

Shastri—7; Acharya—3.

**Library, Museums, Laboratories, etc.**

The University Tagore Library contains 66,091 volumes excluding 6,361 volumes in the Library of the King George's Medical College, Lucknow, and 1,946 volumes of the Bonarjee Students Library, a Library composed mainly of text and recommended books and the membership of which is confined to poor students of the University. Departmental Libraries are also separately maintained and placed under the administrative control of the several heads of departments. A new Library building has been erected at an estimated cost of Rs. 2½ lakhs. This is a unique building, first of its kind in India, designed on up-to-date lines with sufficient accommodation for stacking of books, reading rooms and small rooms for seminar classes, etc.

In addition to the Museums and Laboratories in the Faculty of Medicine, a Museum exists in each of the Departments of Zoology, Botany and Commerce; and a Laboratory exists in each of the Departments of Physics, Chemistry, Botany and Zoology.

**Scholarships, Medals and Fellowships**

The following are the University and Endowed Scholarships and Medals granted to distinguished students of the University under prescribed conditions. The University grants eight scholarships, each of Rs. 15 per month exclusively to women.

## UNIVERSITY SCHOLARSHIPS

*In the Faculties of Arts and Science.—*

1. Seven M.A. scholarships at Rs. 30 per month each.
2. Seven M.Sc. scholarships at Rs. 30 per month each.
3. (i) Two scholarships of Rs. 20 per mensem each tenable for 3 years for award to students taking the B.A. (Hons.) course.  
(ii) Two scholarships of Rs. 20 per mensem each for award to students taking the B.A. (Pass) or (Hons.) course tenable for two or three years according as they are awarded to Pass or Honours students.
4. (i) Two scholarships of Rs. 20 per mensem each tenable for 3 years for award to students taking the B.Sc. (Hons.) course.  
(ii) Two scholarships of Rs. 20 per mensem each for award to students taking the B.Sc. (Pass) or (Hons.) course tenable for two or three years according as they are awarded to Pass or Honours students.
5. One scholarship of Rs. 20 per month for III Year B.A. (Hons.).
6. One scholarship of Rs. 20 per mensem for III Year B.Sc. (Hons.).

*In the Faculty of Medicine.—*

Eight scholarships of Rs. 16 per month for I and II Year students.

Twelve scholarships of Rs. 20 per month for III, IV and V year students.

*In the Faculty of Law.—*

One scholarship of Rs. 16 per month for LL.B.

One scholarship of Rs. 30 per month for LL.M.

*In the Faculty of Commerce.—*

Two scholarships of Rs. 16 per month each.

## ENDOWED SCHOLARSHIPS AND MEDALS

(1) Hewett Sir Harnam Singh Gold Medal—for award to the most successful B.Sc. Pass student.

(2) Peary Lal Chak Medal—for award to the best English Essay in the B.A. Pass examination.

(3) Pandit Suraj Narain Bahadur Gold Medal—for award to a student who scores the highest aggregate marks in Physiology, Pathology and Medicine for the M.B., B.S. Degree.

(4) Hamid Medal—for award to a student who scores the highest marks in Anatomy, Pathology and Surgery for M.B., B.S. Degree.

(5) Gopal Chandra Mukherji Memorial Medal—for award to one scoring the highest percentage of marks at the M.A. Examination in History.

(6) Raja Sir Harnam Singh—Sir Harcourt Butler, Raja Sir Harnam Singh—Sir Ludovic Porter, and Raja Sir Harnam Singh—Raja Sir Mohammad Ali Mohammad Khan Medals—awarded for proficiency in Oriental studies, Commercial subjects and Medical studies, respectively.

(7) Pandit Debi Sahai Misra Gold Medals—awarded one to each of the best students in the B.A., M.Sc. and LL.B. examinations.

(8) R. B. Chaubey Shambhu Nath Misra Memorial Gold Medal—awarded to the one securing the highest number of marks in Ophthalmology in the Final M.B., B.S. examination.

(9) Dr. Chakravarti Medal for Service—awarded for good behaviour and helping most in the general social life of the University.

(10) Bhaskar Atmaram Deodhar Memorial Medal—for award to a student who stands in the first division and obtains the highest percentage of marks among candidates in the B.A. and B.Sc. examinations.

(11) Ohdedar Memorial Gold Medal—for award to a student who stands first in the Final M.B., B.S. Part I, Group B, at the first attempt.

(12) Bali Handoo Prize Medal—for award to a student who obtains in the Final M.B., B.S. Part II Examination, the highest number of marks in Surgery, Ophthalmology and Midwifery.

(13) Bonarjee Research Prize of Rs. 200—for award for the best research production of the year submitted by a student of the University.

(14) Ruchi Ram Sahni Research Prize in Botany—for award for the best piece of research work carried out at the University during three preceding years.

(15) Raja Shanker Sahai of Maurawan Medal—for award to the student sportsman who has the best academic record in the University examination of that year.

(16) The Said-uz-Zafar Khan Prizes for Anatomical Dissection to commemorate the Silver Jubilee of H. M. King George V—for award to a second year student of the King

George's Medical College whose dissection is found to be the best in a Dissection competition to be held annually.

(17) Eduljee Hormusha Parakh Medal—for award to a student who obtains the highest total marks in all Clinical and Practical parts of the M.B., B.S. examination in Medicine, Surgery, Ophthalmology, Obstetrics and Gynæcology at the October examination.

(18) Wilhelmina Buck Memorial Medal—for award to a student who writes the best Thesis in the M.A. examination in Economics.

(19) Vangala Narasamma Garu Memorial Medal—for award to the best M.A. student in Political Science.

(20) Rameshwar Gurtu, Triloki Nath Gurtu, and Anandi Lal Gurtu Memorial Medals—awarded to the best students in the M.A. and M.A. Part II examinations in Economics and Sociology, Ancient Indian History, and the student who stands first in the final M.B., B.S. Part II examination held in April, respectively.

(21) Ram Sahai Nigam Medal—for award to the student who stands first in the Physics group at the B.Sc. Pass examination.

(22) The Ward Memorial Vidyant Medal—for award to the best student in the M.Sc. and M.Sc. Part II examinations in Physics.

(23) Shitla Prasad Memorial Gold Medal—for award to the student who obtains the highest marks in Hindi in the B.A. Pass examination.

(24) R. B. Trilok Nath Gold Medal—for award to the student who stands first in the B.Com. Previous examination.

(25) Pt. S. N. Mushran Gold Medal—for award in alternate years to the student who obtains highest percentage of marks in Urdu with Persian of B.A. and M.A. examinations of the preceding two years and in Persian of B.A. and M.A. examinations of the preceding two years.

(26) Captain Kunwar Indrajit Singh Scholarship.

(27) Gopi Nath Memorial Gold Medal—for award to the student who obtains highest number of marks in Medicine in the Final M.B., B.S. Part II examination held in April.

(28) Ganga Devi Memorial Gold Medal—for award to the woman student who obtains the highest percentage of marks among the successful candidates in the B.A. Pass and B.A. Honours examinations.

(29) R. B. Shankar Dayal Nigar Gold Medal—for award to the student who obtains the highest marks in the thesis for

the Master's Degree in Urdu with Persian and English in alternate years.

(30) Dr. Cameron-Debi Dayal Misra Gold Medal—for award to the student who obtains the highest percentage of marks in M.A. and M.A. (Part II) examinations in Philosophy.

(31) Sir Bisheshwar Nath Gold Medal—for award to the student who obtains the highest percentage of marks among the successful women candidates in M.A., M.Sc., M.B.B.S. and LL.B. examinations.

(32) Kunwar Bam Bahadur Shah Gold Medal—for award to a girl student who obtains the highest percentage of marks in the aggregate in B.A., and B.Sc. (both Pass and Honours) and M.A. and M.Sc. (both Special and Part II) examinations.

Besides these, there are a number of scholarships and endowments specially for the Canning College and the King George's Medical College.

#### FELLOWSHIPS

Fellowships are assigned to the Faculties in the following manner:—

Faculty of Arts—5, Faculty of Science—5, Faculty of Medicine—1, Faculty of Law—1 and an additional Fellowship is awarded in any Faculty to a candidate who may be specially recommended for the purpose. The value of each Fellowship is Rs. 75 per mensem in the Faculties of Arts, Science and Law and Rs. 100 per mensem in the Faculty of Medicine and such Fellowships are ordinarily tenable for 21 months, *i.e.*, from the 1st of August to the 30th of April of the year next after the succeeding year in the Faculties of Arts, Science and Law and 12 months, *i.e.*, from the 1st of October to 30th September, in the Faculty of Medicine.

#### Provision for Research: Publication and Extension Work

For the encouragement of advanced study and research work, Fellowships have been instituted in the University as mentioned above.

There is one Bonarjee Prize of Rs. 200 per mensem as mentioned above for the best research production of the year, open both for the M.A. and M.Sc. Theses as also for the Ph.D., D.Sc. and D.Litt. Theses.

Arrangements are made for delivery of a number of popular lectures in the course of the year such as General Extension Lectures, Lectures organized by the Vice-Chancellor, Lectures delivered under the "Help the Villagers' Scheme," and Lectures organized under the auspices of the Lucknow University Union.

### Military Training

The Lucknow University Training Corps is the B. Company of the 3rd (United Provinces Battalion) University Training Corps, I.T.F., and is made up of four platoons at the Canning College. The normal strength of the B. Company has six King's Commissioned Officers and 222 N.C.O.'s and men. Students and members of the teaching staff of the Lucknow University are eligible for enrolment in the B. Company and members normally remain in the Corps so long as they continue to be students or teachers of the University. Every member undertakes on enrolment to complete 80 hours of training during the first six months after enrolment. Every member also undertakes to attend at least three parades every week during term-time and to attend camp annually (which is compulsory) for a period not exceeding 15 days. Advanced training is also imparted to those of over one year's service in the Corps. Members are provided, free of charge, with complete uniforms, equipment and arms. An annual camp for the Battalion is held.

### Associations in the University

There is a University Union. All students enrolled in the Faculties of Arts, Science, Commerce and Law are *ipso facto* members of the Union. The Union holds debates, maintains a Library, Reading and Writing Rooms and Refreshment Room and is intended to promote corporate and social life generally. In addition to the Union, there are various other associations such as Sociological Association, Jnan Vardhini Sabha, General Literary Association, Political Science Parliament, Historical Society, Literary Society of the Persian Department, Lujnatal Adab of the Oriental Department, Clinical Society, Athletic Association, Old Boys' Association, Administrative Staff Association, etc.

### Residence and Cost of Living

Every student of the University has to reside in a College or Hall or under conditions prescribed by the Statutes and Ordinances. There is a Residence, Health and Discipline Board which looks after the conditions of life, both of resident and non-resident students, the latter being those who while living with parents or guardians are attached to a College or Hall. In the year 1940-41 there were 522 resident students.

*Delegacy.*—With a view to afford facilities to a large number of non-resident students living with parents or guardians or in boarding houses in the city, for common room activities of corporate life and social contact the University has opened five centres. Each of these centres is in the charge of a resident member of the teaching staff.

### **Budget: Provident Fund**

There is a Provident Fund to which subscription is paid by a member drawing at least Rs. 40 per mensem, at the rate of 8 per cent. of his salary, the University contributing at the rate of 12 per cent. in the case of employees drawing not more than Rs. 500 per mensem and 10 per cent. in the case of employees drawing not more than Rs. 1,000 but above Rs. 500 per mensem and 8 per cent. in the case of employees drawing more than Rs. 1,000 per mensem. The interest on both of these contributions accrues to the account of the subscriber.

### **Women's Education**

There are two separate Colleges for women where they can study for B.A. and B.Sc. Examinations and also for Diploma in Teaching. There were 104 students during 1940-41.

There is also a separate Hostel for women students.

### **Provision for Safeguarding Health, Medical Inspection, Discipline, etc.**

Before admission to a Hostel every student has to produce a certificate from the Medical Officer of the University or from a registered Medical Practitioner that he is physically fit for residence and every student of the University is physically examined at least once a year by the Medical Officer. Dispensaries and Medical Officers are attached to the Hostel and College.

There is a whole-time Director of Physical Instruction to look after the physical training of students. A system of compulsory physical training for all resident students has been introduced from the session 1936-37 under the expert supervision of the Director.

Breaches of Hostel Regulations are dealt with by the Warden, of College Regulations by the Principal, of University Regulations by the Proctor who is expected to attend to the 'misbehaviour or improper conduct elsewhere than within the compounds of the College and Hostels.

### **Admission to the University Courses of Study, Degrees and Examinations**

The University confers in Arts the Bachelor's Degree (Pass and Honours), and the Master's Degree; in Science, the Bachelor's Degree (Pass and Honours) and the Master's Degree. The Professional Degrees and Diplomas are: Bachelor of Laws, Master of Laws, Bachelor of Commerce, Master of Commerce,



Bachelor of Medicine and Surgery, Master of Surgery, Diploma in Experimental Psychology, Diploma in Public Health (the courses for Diploma in Public Health have been suspended), Diploma in Medical Radiology and Electricity, Diploma in Laryngology and Otology, Diploma in Teaching, Diplomas in Arabic, Persian and Sanskrit. The following are the Doctor's Degrees: PH.D., D.LITT., D.Sc., M.D., LL.D.

### Admission to Courses of Study

Admission to a course of study for a Bachelor's Degree is confined to those who have passed either the Intermediate Examination of a recognized Indian University or of the Board of High School and Intermediate Education of U.P. or of Rajputana, Central India and Gwalior or the Intermediate Examination of the Board of Intermediate and Secondary Education, Dacca, or the Cambridge Higher School Certificate Examination, or the Previous Examination of Cambridge University, or the Responsions of the Oxford University or the Intermediate Examination in Science of the Rangoon University. There is no admission examination instituted by this University except for the Medical Faculty. Special provision is made for admission of Teachers of local colleges and schools to the Degree Examinations in the Faculty of Arts, without preceding attendance at the University.

### COURSES OF STUDY, DEGREES AND EXAMINATIONS ARTS

(1) *B.A. (Pass)*.—The course of study for the Degree extends over two academic years. A candidate for the Degree is required to study and be examined in three subjects to be taken from the following in prescribed combinations: (i) A Classical Language, (ii) Urdu with Persian, (iii) Hindi with Sanskrit, (iv) History, Indian or European, (v) Philosophy, (vi) Politics, (vii) Economics, (viii) English, and (ix) Mathematics, (x) Islamic Culture and Civilisation. No candidate is admitted to the B.A. Degree unless he has passed an examination in General English prescribed for the B.A. Examination in addition to the examination in other group of subjects prescribed for the degree.

The examination consists of two general and two special papers in English, three papers in Mathematics, Hindi with Sanskrit, Urdu with Persian, Philosophy and two papers in each of the other subjects. The minimum marks for a pass are 33 per cent. in each subject and 36 per cent. in the aggregate. Candidates who obtain 60 per cent. or more of the aggregate marks are placed in the First Division and those obtaining 48 to 59 per cent. in the Second Division.

(2) *B.A. (Honours)*.—The duration of the course of study is three academic years, and students are not admitted to the examination after the fourth year. Candidates must offer one of the following as the Honours subject and two others determined by the Dean, as subsidiary subjects: (i) English, (ii) Philosophy, (iii) European History, (iv) Indian History, (v) Politics, (vi) Economics and Sociology, (vii) Arabic, (viii) Persian, (ix) Sanskrit and Prakrit Languages, (x) Mathematics.

The examination in subsidiary subjects is identical with B.A. (Pass) Degree Examination in those subjects.

In Philosophy, there will be four papers: in English, Indian History and Sanskrit, there will be five papers and six in each of the other subjects. The minimum for a pass is 36 per cent. in the aggregate. Those who obtain 60 per cent. or more are placed in the First Division, those obtaining between 48 per cent. and 60 per cent. in the Second Division and those obtaining between 36 per cent. and 48 per cent. in the Third Division. Candidates securing not less than 30 per cent. of the total marks in the Honours subject may be awarded the Pass Degree.

The Dean can transfer students from Honours to the Pass Course and *vice versa*. Students who hold a Pass Degree and wish to take an Honours Degree in order to qualify for the M.A. course, are admitted to the second year Honours class in one of the subjects taken for the Pass Degree. Graduates prevented by illness from completing the examination may supplicate for an *agrotat* degree.

(3) *Master of Arts*.—The Degree is conferred on Graduates with Honours who have completed a further course of study or research for one year and passed the prescribed examination which may include an examination on a dissertation. Every candidate must offer one of the following subjects for the examination: (i) Language: English or a Classical Language, (ii) Mental and Moral Science, (iii) History, (iv) Mathematics, (v) Economics, (vi) Political Science.

Pass Graduates can obtain the M.A. Degree after a two years' course of study. The examination consists of two Parts: Part I (Previous) and Part II (Final), held at the end of the first and the second years, respectively. The examination is conducted by means of papers only, provided that in specified cases a thesis may be offered in lieu of one of the papers. At the Previous Examination, four papers are set in English, three papers in Philosophy, three in European History and in Indian History, and three papers in Sanskrit. At the Final Examination, there are four papers in English and in Philosophy, four papers in European History, four papers in Indian History, three

papers on any of the eleven groups in Economics and four papers in the remaining subjects except Mathematics in which there are five papers. In lieu of one of the papers, a thesis may be offered except Mathematics.

The examination in Mathematics is the same for the M.Sc. Examination.

The minimum is 36 per cent. in the aggregate for a pass. Those who obtain 60 per cent. or more are placed in the First Division; those obtaining between 48 per cent. and 60 per cent. in the Second Division, and those obtaining between 36 per cent. and 48 per cent. in the Third Division.

(4). *Doctor of Philosophy and Doctor of Literature (Ph.D. and D.Litt.)*.—Candidates for the Degree of Doctor of Philosophy shall have taken the M.A. Degree of this University or of any approved University. Before a candidate is permitted to supplicate for the degree of Ph.D. he must be certified to have been engaged in his research work for not less than two academical sessions or six terms.

Candidates for the Degree of Doctor of Literature shall have taken the Ph.D. Degree of the Lucknow University not less than five years before submitting their work for the D.Litt. Degree. A candidate must submit a thesis embodying the results of his investigation and indicating what part of the results he claims to be his own. The dissertation for the Ph.D. and D.Litt. Degrees must be on some branch of one of the following subjects: (i) Philosophy, (ii) Economics and Sociology, (iii) History, (iv) Mathematics, (v) English, (vi) Sanskrit, (vii) Arabic, (viii) Persian, (ix) Political Science, (x) Urdu, and (xi) Hindi.

The D.Litt. Degree is also conferred, *honoris causa*, on persons who are, in the opinion of the Academic and Executive Councils, fit and proper persons by reason of eminent position and attainments or by virtue of their contributions to the cause of learning.

*Diploma in Psychology*.—Candidates for Diploma in Psychology should be graduates of a recognised Indian university or holders of Diploma or Licence in Teaching or those who have passed the Intermediate Examination and hold Certificate in Teaching. The duration of the course of study is one full session comprising three terms. The examination consists of three written papers and one practical examination. The minimum marks for a pass are 36 per cent. for written papers and 40 per cent. for practical. Candidates who obtain 60 per cent. or more of the aggregate are placed in the First Division and those obtaining 48 to 59 per cent. in the Second Division.

## DIPLOMA EXAMINATIONS

*Diplomas in Arabic and Persian.*—Students prepared by the University for these Diplomas and Teachers of recognized local educational institutions are admitted to the Diploma Examination in Arabic and Persian.

There are three Diploma Examinations in Arabic: (i) Maulvi, (ii) Alim, and (iii) Fazil; and three Diploma Examinations in Persian: (i) Dabir, (ii) Dabir-i-Mahir, and (iii) Dabir-i-Kamil. The Maulvi and Dabir Examinations have been suspended for the time being. The courses of the Alim, Fazil, Dabir-i-Mahir and Dabir-i-Kamil Examinations are of one year's duration. Text-books are prescribed and question papers set on religious subjects. The Fazil course is one of specialised study on one of six prescribed groups of subjects. All the subjects prescribed for other examinations are compulsory.

The medium of examination is Urdu, but questions may be set and answers required in Arabic and Persian. 36 per cent. in the aggregate and 33 per cent. in each subject are the minima for a pass. 60 per cent. and upwards will entitle a candidate to be placed in the First Division and 48 per cent. or more will place him in the Second Division.

*Diploma in Sanskrit.*—Students prepared by the University and Teachers of local schools, Patashalas or other recognized public educational institutions are admitted to the examination in Sanskrit.

There are two Diploma Examinations in Sanskrit: (i) Shastri, and (ii) Acharya.

The Acharya Examination consists of two Parts—Part I and Part II.

The Shastri course aims at giving the students a general education in Sanskrit Learning, while the Acharya course aims at specialization in one or more branches of Sanskrit Learning.

The medium of examination is Sanskrit. Some questions may be set and answers required in Hindi. 36 per cent. in the aggregate and 33 per cent. in each subject are the minima for a pass. 60 per cent. and upwards will entitle a candidate to be placed in the First Division and 48 per cent. and upwards will place him in the Second Division.

EXAMINATIONS FOR CERTIFICATE OF PROFICIENCY IN  
FRENCH AND GERMAN

The course of study extends over two academic years and is open to all University students as well as to Graduates, not necessarily reading in any Faculty of the University, and to

Teachers who fulfil certain conditions. The examination consists of a written paper. The minimum for a pass is 36 per cent.

### SCIENCE

(1) *B.Sc. (Pass)*.—The course of study extends over two academic years. Every candidate is required to pass a prescribed examination in General English (equivalent to the General Section of the B.A. Pass course) and three of the following subjects in prescribed combinations: (i) Physics, (ii) Chemistry, (iii) Mathematics, (iv) Botany, (v) Zoology, and (vi) Physiology.

The examination consists of three papers in Mathematics and two papers and a practical examination in each of the other subjects. The minimum for a pass is 33 per cent. in each subject and 36 per cent. in the aggregate. Candidates are required to pass separately in written and practical examinations. Candidates who obtain 60 per cent. or more are placed in the First Division and those who obtain between 48 per cent. and 60 per cent. in the Second Division.

(2) *B.Sc. (Honours)*.—The course of study extends over three academic years and students are not permitted to appear for the Honours Examination after the fourth year. Every candidate is required to pass a prescribed test in General English and should study and be examined in one of the following subjects as Honours subject and two others as subsidiary subjects taken from a list of subjects prescribed in respect of each principal subject: (i) Physics, (ii) Chemistry, (iii) Botany, (iv) Zoology, and (v) Mathematics.

The examination in Mathematics is the same as for the B.A. (Honours) Examination and the examination in other subjects consists of four papers and a practical examination. The examination in subsidiary subjects is identical with the Pass B.Sc. Degree Examination in those subjects.

Candidates must obtain 36 per cent. of the aggregate marks for a pass. Candidates are required to pass separately in written and practical examinations. Those who obtain 60 per cent. or more of the aggregate are placed in the First Division and those obtaining between 48 per cent. and 60 per cent. in the Second Division. Candidates who secure not less than 30 per cent. of the total marks in the Honours subject may be awarded the Pass Degree.

Students who hold the B.Sc. Pass Degree and wish to take an Honours Degree, with a view to qualifying for the M.Sc. courses, are admitted to the second year Honours Class in any subject taken for the Pass Degree. Candidates with Honours in one school are admitted to Honours in another school under

prescribed conditions. A candidate who is prevented by illness from completing the Honours Examination may supplicate for an *ægotat* degree.

(3) *Master of Science (M.Sc.)*.—Bachelors of Science with Honours of this or any other approved University are eligible for admission to this Degree. The course of study for this degree extends over one academic year for Honours Graduates and two years for Pass Graduates. Every candidate must offer one of the following subjects: (i) Mathematics, (ii) Physics, (iii) Chemistry, (iv) Zoology, and (v) Botany.

For Pass Graduates, the examination consists of two parts: the Previous and the Final, held at the end of the first and second years, respectively. At the examination, Previous, five papers and Final, four papers are set in Mathematics, and there will be three papers and a practical examination in each of the other subjects. The minimum is 36 per cent. of the aggregate for a pass. Candidates are required to pass separately in written and practical examinations. Those who obtain 60 per cent. or more are placed in the First Division; those obtaining between 48 per cent. and 60 per cent. in the Second Division and those obtaining between 36 per cent. and 48 per cent. in the Third Division.

(4) *Doctor of Philosophy and Doctor of Science (Ph.D. and D.Sc.)*.—Candidates for the Degree of Doctor of Philosophy shall have taken the M.Sc. Degree of this University or any approved University. They shall be required to have pursued their researches under the supervision of the University for six terms before presenting their dissertations. Candidates for the Degree of Doctor of Science shall have taken the Ph.D. Degree of the Lucknow University not less than five years before submitting their work for the D.Sc. Degree. Every candidate must submit a thesis embodying the results of his investigation indicating what part of the results he considers to be his own. The dissertation submitted must be on some branch of one of the following sciences: (i) Physics, (ii) Chemistry, (iii) Botany, (iv) Zoology, and (v) Mathematics.

The D.Sc. Degree is also conferred, *honoris causa*, on persons who are, in the opinion of the Academic and Executive Councils, fit and proper persons by reason of eminent position and attainments or by virtue of their contributions to the cause of learning.

#### COURSES OF STUDY AND DEGREES LEADING TO PROFESSIONS MEDICINE

(1) *Pre-Medical Examination*.—This examination is intended for admission to the courses of study for the M.B., B.S. Degree. Bachelors of Science with Chemistry and Biology of

any approved University or students who have passed the Intermediate Examination of the Board of Intermediate Education, U.P., or of the Board of Intermediate Education, Rajputana, Central India and Gwalior or the Intermediate Examination of Allahabad, Aligarh, Benares and Nagpur Universities under certain conditions, with Chemistry, Physics and Biology, are admitted to this examination. Every candidate must offer the following subjects on each of which one paper will be set at the examination: (i) Chemistry including Organic Chemistry, (ii) Physics, and (iii) Zoology. The examination is a competitive one for filling up a declared number of seats in the Medical Faculty and the selected candidates have to undergo a Health Examination by a Medical Board. Preference is given to candidates belonging to the United Provinces, but students can be admitted (among the sanctioned number of vacancies) from the Provinces and Indian States which have no Medical College of their own and whose claim to admission is recognized on certain conditions by the University.

(2) *Bachelor of Medicine and Bachelor of Surgery (M.B., B.S.)*.—Candidates who have passed the Pre-Medical Examination are admitted to the courses of study for the M.B., B.S. Degree extending over five academic years. During the first four years, a year of study includes at least two of the prescribed courses of lectures, or laboratory work or one such course and Hospital practice in each term. The work of the fifth year consists of clinical work and clinical lectures. Attendance must be kept at the University Hospital or any other recognized institution.

There are two examinations to be taken: the First Professional Examination and the Final Professional Examination. The former is held at the end of the second year and consists of Anatomy and Physiology. Candidates for this examination are required to have also dissected the human body at least once. There will be two papers and a practical and oral examination in Anatomy and in Physiology.

The Final Professional Examination also is divided into two parts which may be taken up separately or together under prescribed conditions. Part I consists of Groups A and B. Group A consists of Pharmacology. Candidates must pass in Group A before appearing in Group B, which consists of Pathology and Bacteriology, Forensic Medicine, Toxicology, Mental Diseases and Public Health. Part II comprises Medicine with Therapeutics and Medical Pathology, Surgery including Surgical Anatomy and Surgical Pathology, Ophthalmology, Obstetrics and Gynæcology. In Part I, there will be one paper and an oral examination in Pharmacology, Forensic Medicine, Toxicology, Mental Diseases and Public Health and two papers

and a practical and oral examination in Pathology. Part II of the Final Professional Examination consists of two papers and a practical and clinical examination in Medicine and in Surgery, one paper and an oral and clinical examination in Ophthalmology, and one paper and an oral examination in Obstetrics and Gynaecology.

The minimum for distinction in each subject is 75 per cent. of the aggregate and for Honours it is 75 per cent. in four subjects. The minimum for a pass in the written papers is 40 per cent.; in the practical and oral examinations, it varies with each subject.

(3) *Doctor of Medicine (M.D.) and Master of Surgery (M.S.)*.—Bachelors of Medicine and Surgery of at least three years' standing are eligible for admission to these Degrees. Candidates for the M.D. Degree have to submit a thesis on a special subject in any of the following Departments:—(i) Medicine, (ii) Pathology, (iii) Forensic Medicine, (iv) State Medicine, (v) Pharmacology, (vi) Physiology and for M.S. on a special subject in any of the following Departments:—(i) Surgery, (ii) Ophthalmology, (iii) Obstetrics and Gynaecology, and (iv) Anatomy.

Candidates for either degree must submit themselves to an examination consisting of two parts. There will be three written papers in Part I; and in Part II, there will be a practical examination in the Department selected by the candidate, a clinical and practical examination in Medicine and Medical Pathology. In Part II of the M.S. Degree, there will be a practical examination in the Department selected by the candidate and a clinical and a practical examination in Surgery and Surgical Pathology.

A Medical graduate of the University or of Allahabad University prior to 1922 of not less than 10 years' standing can proceed to the M.D. or M.S. Degree by a research thesis only.

*Diploma in Medical Radiology and Electricity*.—Candidates for Diploma in Medical Radiology and Electricity should be graduates in Medicine of this University or of any approved University. The duration of the course of study is one academic year (three terms). The examination for the Diploma consists of two Parts, Part I and Part II. Candidates may enter for Part I and Part II examination at the same time; or may enter for Part I only. There will be a written paper, a practical examination and an oral examination in each of the subjects under Part I and II. The minimum pass marks are 50 per cent. separately in written or practical work. The subjects of study are: Part I—Electro Magnetism, Electro Technology as applied to Radio-diagnosis and Radio-therapeutics. Part II—(a) Radiography and Radio-diagnosis; (b) Radio-therapy.



## LAW

(1) *Bachelor of Laws (LL.B.)*.—Bachelors of Arts or Science of any approved University and Bachelors of Arts, Science or Commerce of the Lucknow University are admitted to the courses of study for the LL.B. Degree which extends over two academic years. The examination consists of two parts—the Previous and the Final—held at the first and the second years, respectively. The Previous Examination is conducted wholly by means of papers, one on each of the following subjects: (i) Roman Law, (ii) Jurisprudence, (iii) Constitutional Law, (iv) Law of Contracts, (v) Law of Torts and Easements, (vi) Mercantile Law, (vii) Criminal Law and Procedure.

At the Final Examination seven papers are set one on each of the following subjects: (i) The Law relating to Transfer of Property and the Law of Conveyancing, (ii) Equity with special reference to the Law of Trusts and Specific Relief, (iii) Hindu Law with the statutory modifications thereof, (iv) Muhammadan Law with the statutory modifications thereof, (v) Civil Procedure Code and the Law of Pleadings, (vi) The Law of Evidence and Principles of the Law of Limitation, (vii) The Law relating to Land Tenures, Rent and Revenue in the United Provinces of Agra and Oudh.

The minimum for a pass is 30 per cent. in each paper and 50 per cent. in the aggregate of each examination. Candidates who obtain 66 per cent. of the aggregate or more are placed in the First Division and those obtaining 50 per cent. or more and less than 66 per cent. in the Second Division in each examination.

(2) *Master of Laws (LL.M.)*.—Bachelors of Law of any approved University who are of at least two years' standing are eligible for admission to the LL.M. Examination. Candidates are required to pass in each of the following branches of Law: (i) Jurisprudence, Principles of Legislation and any four of the following:—(a) Hindu Law, (b) Mohammadan Law, (c) the Law of Torts and Easements, (d) the Law relating to the Transfer of Property, (e) Equity, (f) Private International Law (Conflict of Law), (g) Constitutional Law (English and Indian), (h) Comparative Federal Law, (i) Principles of the Law of Contracts, (j) Law of Agency, Bailment, Indemnity, and Guarantee, Partnership and Sale of Goods, (k) Criminology, (l) Roman Law, (m) Public International Law, (n) Law of Crimes.

There will be one paper on each Branch. The minimum for a pass is 40 per cent. in each paper and 50 per cent. of the aggregate.

(3) *Doctor of Laws (LL.D.)*.—A Master of Laws of this University who is not of less than three years' standing is

eligible for the LL.D. Degree. Candidates shall be required to have pursued their researches under the supervision of the University for six terms before presenting their dissertations.

The LL.D. Degree is also conferred *honoris causa*, on persons who are in the opinion of the Academic and Executive Councils, fit and proper persons by reason of eminent position and attainments or by virtue of their contributions to the cause of learning.

### COMMERCE

(1) *Bachelor of Commerce (B.Com.)*.—Students who have passed either the Intermediate Examination in Commerce of the Board of High School and Intermediate Education of U.P., or of Rajputana, Central India and Gwalior, or the Commercial Diploma Examination of the Panjab University, or the Intermediate Examination in Arts (Group B—Special) of the Delhi University, or the Intermediate Examination in Group E of the Board of Intermediate and Secondary Education, Dacca, or the Intermediate Examination of the Andhra University in three Commercial subjects, *viz.*, Accountancy, Banking and Economic Geography or the Intermediate Examination or the B.A. Examination of any recognised University with Economics as one of his subjects, or Part I of the Associate Examination of the Indian Institute of Bankers after passing the Intermediate Examination of the Board of High School and Intermediate Education of U.P., or of Rajputana, Central India and Gwalior, or of the Board of Intermediate and Secondary Education, Dacca, or the Intermediate Examination of an Indian University established by an Act of the Legislature are admitted to the course of study for the B.Com. Degree extending over two academic years. The examination consists of two parts: the Previous and the Final, held at the end of the first and second years respectively.

The Previous Examination is conducted wholly by means of papers on the following Sections: I. (i) Accounting and Banking and (ii) Transport; II. (i) Business Organization and (ii) Indian Industries and Resources; III. (i) Economics and (ii) General Administration or Co-operative Organization and Finance. One paper is set on each part of the Sections.

The Sections for the Final Examination are the following:—I. Advanced Accounting and Auditing or Advanced Banking or Transport; II. (i) International Trade and Foreign Exchange, (ii) Secretarial Practice; III. (i) Statistics, (ii) Public Finance; IV. Mercantile and Industrial Law. Two papers are set on each of the Sections I and IV and one paper on each part of the other two Sections.

Candidates are not eligible to receive the B.COM. Degree until they have passed the Examination in General English prescribed for the B.A. Examination of the University.

The minimum for a pass is 33 per cent. of the total number of marks in each Section and 36 per cent. of the aggregate. Candidates who obtain 60 per cent. and above are placed in the First Division and those obtaining 48 per cent. and above but less than 60 per cent. in the Second Division.

(2) *Master of Commerce (M.Com.)*.—The degree is conferred on graduates in commerce who have pursued a regular course of study in the University for not less than two academic years since taking their Bachelor's Degree in Commerce and have passed the prescribed examination. The Examination consists of two parts: Part I (Previous) and Part II (Final) held at the end of the first and the second years, respectively. The examination is conducted by means of papers, thesis and *viva voce* test. At the previous examination four papers are set as follows: (1) Marketing Practice and Finance, (2) Advanced Transport, (3) Applied Statistics, (4) Finance and Practice of International Commerce.

At the Final Examination there are three papers as follows: (1) Accounting Problems and Practice or Banking Problems and Practice or Insurance, (2) Commercial Development and Industrial Organisation in the nineteenth and twentieth centuries, (3) Organisation and Finance of Major Industries in India.

Admission to M.COM. course is restricted to Graduates in Commerce of the Lucknow or of the Allahabad, Agra, Calcutta, and the Punjab Universities.

The minimum is 36 per cent. in the aggregate for a pass. Those who obtain 60 per cent. or more are placed in the First Division; those obtaining between 48 per cent. and 59 per cent. in the Second Division and those obtaining between 36 per cent. and 47 per cent. in the Third Division. The Division is awarded on the combined results of Parts I and II.

### TEACHING

*Diploma in Teaching*.—This Diploma is granted to women graduates who successfully undergo a prescribed course of study for one academic year. The examination is both in the theory and practice of teaching. The theory examination consists of four papers set as follows: (1) Principles of Teaching, (2) History of Education, (3) Methods of Teaching, (4) School Management and Hygiene. Special examinations will be held for special qualifications. Every candidate must have passed through a practical course of physical training. The examination

in the practice of teaching will be conducted in the Training College in which the student was trained. The minimum is 36 per cent. of the aggregate for a pass, 60 per cent. for First Division and 48 per cent. for Second Division.

### Table of Examination Fees

	Rs.
<b>ARTS AND SCIENCE</b>	
B.A. and B.Sc. (Pass)* .. .. .	30
B.A. and B.Sc. (Honours)* .. .. .	55
Provided that a student who holds a Pass Degree and wishes to take an Honours Degree or a student who has passed the examination of one Honours School and wishes to appear in the examination of another Honours School shall pay an examination fee of .. .. .	
M.A. and M.Sc. .. .. .	50
M.A. and M.Sc. Part I Previous } .. .. .	50
M.A. and M.Sc. Part II Final } .. .. .	
Diploma in Psychology .. .. .	20
NOTE.—Before appearing for any part of an examination, a candidate must deposit the fee for the whole examination.†	
Ph.D., D.Litt. and D.Sc. .. .. .	200
Re-examination in B.A. and B.Sc. Honours subject .. .. .	20
Re-examination in each subsidiary subject .. .. .	10
Re-examination in each subsidiary subject (after passing in the examination in the Principal subject) .. .. .	15
<b>MEDICINE</b>	
Pre-Medical Examination .. .. .	15
First M.B., B.S. .. .. .	25
Final M.B., B.S. Part I .. .. .	55
Do. Part II .. .. .	50
Re-examination in Group B of Final M.B., B.S. Part I .. .. .	50
Re-examination in one subject of Final M.B., B.S. .. .. .	30
M.D. .. .. .	200
M.S. .. .. .	200
D.Ph. (each Part) .. .. .	100
Diploma in Medical Radiology and Electricity (each Part) .. .. .	100

\* A fee of Rs. 10 to be charged from a candidate who has to appear in General or Special English only or in one subject only under Ordinance 2 (iii) under Master of Arts (for Pass Graduates).

A fee of Rs. 2 to be charged from a candidate who has to appear in General English at the end of his first year in the B.A. or B.Sc. courses.

Full examination fee to be charged from students who appear in one subject only, under the compartmental system.

† A fee of Rs. 25 to be charged from a candidate who has to re-appear in either Part of M.A. or M.Sc. Examination.

Rs.

## LAW

LL.B. Previous ..	..	..	..	20
LL.B. Final ..	..	..	..	40
LL.M. ..	..	..	..	100
LL.D. ..	..	..	..	200

## COMMERCE

B.COM. Previous ..	..	..	..	10
B.COM. Final* ..	..	..	..	20
M.COM. Part I ..	..	..	..	25
M.COM. Part II ..	..	..	..	25
Special Paper in Accountancy ..	..	..	..	10

## DIPLOMA EXAMINATIONS

*In Arabic and Persian:*

Maulvi and Dabir ..	..	..	..	4
Alim and Dabir-i-Mahir ..	..	..	..	8
Fazil and Dabir-i-Kamil ..	..	..	..	10

*Diploma in Teaching:*

For the full examination ..	..	..	..	20
Re-examination in each subject ..	..	..	..	10

*In Sanskrit:*

Shastri ..	..	..	..	8
Acharya ..	..	..	..	10

NOTE.—Before appearing in Part I of the Acharya Examination, a candidate must deposit the fee for the whole examination,† *i.e.*, Rs. 10.

CERTIFICATE OF PROFICIENCY IN FRENCH OR GERMAN .. 10

\* Full examination fee to be charged from students who appear in one section only under the compartmental system. A fee of Rs. 10 to be charged from a candidate who has to appear in General or Special English only.

† A fee of Rs. 5 will be charged from a candidate who has to re-appear in either Part of the Acharya Examination.

# Madras University

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## Introductory: Character of the University

The University of Madras was founded under the Act of Incorporation XXVII of 1857. This Act was in operation until 1904 when as a result of the Commission appointed by the Government of India in 1902 to examine the working of the Universities under that system, the Indian University Act No. VIII of 1904 was passed with the intention of reorganizing the Universities in India and of enlarging their functions in the matters of University Teaching and of supervision over affiliated colleges. This Act again was superseded by the Madras University Act No. VII of 1923 which was passed to reorganize the University with a view to establishing a teaching and residential University at Madras while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it. This Act has since been amended by the Amended Act XII of 1929, which has since been modified by the Government of India (Adaptation of Indian Laws) Orders, 1937 and 1940.

The University is federal in character and is in the main an examining body, though it has undertaken teaching and research in Economics, Indian History, Politics, Philosophy, Mathematics, Statistics, Botany, Biochemistry and Zoology as well as in Sanskrit, Islamic and Dravidian Languages and in Indian Music.

There are 15 Constituent Colleges, *i.e.*, colleges within the University area. Of these, six prepare candidates for Degrees in Arts and Science, four in Teaching, one in Law, two in Medicine, one in Engineering, and one in Veterinary Science. One of the Colleges is recognised for B.O.L. course. Besides, there are 31 Affiliated Colleges of which 30 prepare candidates for Intermediate courses and for Degrees in Arts and Science, and one in Agriculture. Provision is also made to confer Degrees and Titles in Oriental Learning. There are 22 Institutions (including a Constituent first-grade College) preparing candidates for Oriental Titles.

**Officers and Staff of the University****CHANCELLOR**

His Excellency the Hon'ble Sir Arthur Hope, G.C.I.E., M.C.,  
Governor of Madras.

**PRO-CHANCELLOR**

*Vacant.*

**VICE-CHANCELLOR**

Sir Mahomed Usman, K.C.I.E., B.A., M.L.C.

**REGISTRAR**

Mr. William McLean, M.B.E., J.P., M.A., B.L., *Chartered Secretary.*

**LIBRARIAN**

Rao Sahib S. R. Ranganathan, M.A., L.T., F.L.A.

**ASSISTANT LIBRARIAN**

Mr. M. O. Thomas, M.A., Th.D., F.L.A.

**PRESIDENTS OF FACULTIES**

Arts	..	Sri. K. A. Nilakanta Sastri, M.A.
Science	..	Sri. R. Gopala Ayyar, M.A., M.Sc., L.T.
Law	..	Mr. K. Krishna Menon, M.A., B.C.L., Bar.-at-Law.
Medicine	..	Diwan Bahadur A. Lakshmanaswami Mudaliyar, B.A., M.D., F.R.C.O.G., F.A.C.S.
Engineering	..	Mr. K. C. Chakko, B.A., D.Sc., M.I.E. (Ind.).
Teaching	..	The Rev. T. R. Foulger, M.A.
Agriculture	..	( <i>Vacant</i> ).
Veterinary Science		( <i>Vacant</i> ).
Commerce	..	( <i>Vacant</i> ).
Oriental Learning		Sri. C. Kunhan Raja, B.A. (Hons.), D.Phil.
Fine Arts	..	Sri. P. Sambamurti, B.A., B.L.

**UNIVERSITY PROFESSORS, TEACHERS, ETC.****Department of Indian Economics:—**

Mr. P. J. Thomas, M.A., Ph.D., B.Litt., D.Phil., Professor (*on leave*).

Mr. P. S. Lokanathan, M.A., D.Sc. (Econ.), Ag. Professor.

Mr. K. C. Ramakrishnan, M.A., Ag. Reader.

Mr. B. Nataraja Pillai, M.A., Ag. Lecturer.

*Department of Indian History and Archæology:—*

Mr. K. A. Nilakanta Sastri, M.A., Professor.

Mr. N. Venkataramanayya, M.A., Ph.D., Reader.

Mr. V. R. Ramachandra Dikshitar, M.A., Dip.Econ., Lecturer.

*Department of Indian Philosophy:—*

Mr. S. S. Suryanarayana Sastri, M.A., B.Sc., Bar.-at-Law,  
Reader.

*Department of Mathematics:—*

Mr. R. Vaidyanathaswami, M.A., Ph.D., D.Sc., F.R.S.E.,  
Reader.

*Department of Zoology:—*

Mr. R. Gopala Ayyar, M.A., M.Sc., L.T., Director (Professor).

Mr. K. H. Ali Kunhi, M.Sc., Research Assistant.

*Department of Biochemistry:—*

Mr. M. Damodaran, M.A., M.Sc., D.Sc., D.I.C., F.I.C.,  
Director (Professor).

Mr. K. Ramakrishnan Nair, B.Sc. (Hons.), M.Sc.,  
Research Assistant.

*Department of Botany:—*

Mr. M. O. Parthasarathi Ayyangar, M.A., L.T., Ph.D.,  
Director (Professor).

Mr. K. R. Ramanathan, B.Sc. (Hons.), M.Sc.,  
Research Assistant.

*Department of Politics and Public Administration:—*

Mr. E. Asirvatham, B.A., B.D., Ph.D., Reader.

*Department of Geography:—*

Mr. George Kuriyan, B.A., B.L., B.Sc., Senior Lecturer.

Mr. V. Kalyanasundaram, M.A., L.T., Junior Lecturer.

*Department of Statistics:—*

Mr. N. Sundararama Sastri, M.A., M.Sc., Lecturer.

*Oriental Research Institute:—**Department of Sanskrit:—*

Mr. C. Kumhan Raja, B.A. (Hons.), D.Phil., Reader.

Mr. T. R. Chintamani, M.A., Ph.D., Senior Lecturer.

Mr. V. Raghavan, M.A., Ph.D., Junior Lecturer.

*Department of Tamil:—*

Rao Sahib S. Vaiyapuri Pillai, B.A., B.L., Reader.

Mr. R. P. Sethu Pillai, B.A., B.L., Senior Lecturer.

Vidvan V. Venkatarajulu Reddiar, Junior Lecturer.



*Department of Telugu:—* \*

Mr. K. Ramakrishnayya, M.A., Senior Lecturer.

Mr. Sripada Lakshmipathi Sastri, Junior Lecturer.

*Department of Kannada:—*

Mr. M. Mariappa Bhat, M.A., L.T., Senior Lecturer.

Mr. H. Sesha Ayyangar, Junior Lecturer.

*Department of Malayalam:—*

Mr. C. Achyuta Menon, B.A., Ph.D., Senior Lecturer.

Mr. P. Krishnan Nair, Junior Lecturer.

*Department of Arabic, Persian and Urdu:—*Mr. S. Muhammad Hussain Nainar, M.A., LL.B., Ph.D.,  
Senior Lecturer.

Mr. Abu Hashim Syed Eushaw, B.A., Junior Lecturer.

Mr. Muhammad Hussain Mahvi, Junior Lecturer.

*Department of Indian Music:—*

Mr. P. Sambamurti, B.A., B.L., Lecturer.

Vidvan K. Ponniah Pillai, Vocal Assistant.

Mr. Parur A. Sundaram Ayyar, Violin Assistant.

Mr. M. Udaya Varma Rajah, Veena Assistant.

*Diploma in Modern European Languages:—**French:* The Rev. A. Sauliere, S.J., Lecturer.*German:* Mrs. Ellen Sharma, M.A., M.Ed. (Muenster).**Constituent and Affiliated Colleges of the University  
and their Principals****CONSTITUENT COLLEGES (15)***First Grade Colleges*

Women's Christian College, Madras	Miss Eleanor H. Rivett, M.A.
Pachaiyappa's College, Madras	Mr. V. Tiruvenkataswami, M.A.
The Presidency College, Madras	Mr. H. C. Papworth, O.B.E., M.A.
Queen Mary's College for Women, Madras	Miss K. Myers, M.A.
Government Muhammadan College, Madras	Afzal-ul-Ulama Md. Abdul Haq Sahib Bahadur, M.A., D.Phil.
Loyola College, Madras ..	The Rev. L. D. Murphy, S.J., M.A.

*Professional Colleges*

Lady Willingdon Training College, Madras	Miss J. M. Gerrard, M.A.
St. Christopher's Training College, Madras	Miss K. N. Brockway, M.A.
Madras Teachers' College, Saidapet	Rao Bahadur N. R. Krishnamma, M.A.
Meston Training College, Royapettah, Madras	The Rev. T. R. Foulger, M.A.
Madras Law College ..	Mr. K. Krishna Menon, M.A., B.C.L., Bar-at-Law.
Madras Medical College, Madras	Diwan Bahadur A. Lakshmanaswami Mudaliyar, B.A., M.D., F.R.C.O.G., F.A.C.S.
Stanley Medical College, Madras	Rao Bahadur G. R. Dinkar Rao, M.D.
College of Engineering, Guindy, Madras	Mr. K. C. Chakko, B.A., D.Sc., M.I.E. (Ind.) ( <i>on leave</i> ); Mr. J. J. Rudra, M.A., B.Sc., Ph.D., A.I.I.S.C., M.I.E.E., Mem.A.I.E.E. ( <i>Acting</i> ).
Madras Veterinary College, Vepery, Madras	Mr. K. S. Nayar, G.B.V.C., M.R.C.V.S.

## AFFILIATED COLLEGES (32)

*Second Grade Colleges*

Malabar Christian College, Calicut	Mr. J. F. Thaddaeus, B.A., L.T.
Zamorin's College, Calicut	Mr. R. Ravi Varma, M.A.
Government College, Coimbatore	Mr. T. S. Krishnamurti Ayyar, M.A., L.T.
Madura College, Madura ..	Mr. V. Subbusesha Ayyar, M.A., L.T.
Government College, Mangalore	Mr. K. Sankaranunni Nayar, B.A. (Hons.), Bar-at-Law.
St. John's College, Palamcottah	The Rev. G. T. Selwyn, M.A.
Raja's College, Pudukottai ..	Mr. K. Venkatarama Sarma, M.A., L.T.
The Salem College ..	Mr. A. Ramaswami Gounder, M.A., L.T.

Government Brennen College, • Tellicherry	Mr. T. M. Kelu Nedungadi, M.A., L.T.
Islamiah College, Vaniyambadi	Mr. Syed Abdul Wahab Bukhari Sahib, M.A., L.T.
The Elizabeth R. Voorhees College, Vellore	Rao Sahib V. P. Adiseshayya, M.A., L.T.

### *First Grade Colleges*

The Ceded Districts College, Anantapur	Rao Sahib C. D. Subrahmanya Chetty, M.A.
St. Joseph's College, Bangalore	The Rev. T. Gonslaves, S.J., B.A., D.D.
Maharaja's College, Ernakulam	Mr. K. Karunakaran Nayar, M.A. ( <i>On leave</i> ); Mr. P. San- karan Nambiyar, M.A. ( <i>Actg.</i> ).
St. Teresa's College, Ernakulam (Women)	Sister M. Antoinette, M.A., L.T.
The Nizam College, Hyderabad (Dn.)	Mr. Qadir Husain Khan, M.A., Bar.-at-Law.
Government College, Kumbakonam	Mr. C. N. Ganapati, M.A., L.T.
The Theosophical College, Madanapalle	Mr. C. S. Trilokekar, M.A.
The American College, Madura	Mr. E. M. Flint, B.Sc.
St. Aloysius' College, Mangalore	The Rev. B. D'Souza, S.J., B.A., D.D.
St. Agnes College, Mangalore (Women)	Sister M. Theodosia, A.C., M.A.
Sarah Tucker College, Palamcottah (Women)	Miss N. M. Hewitt, B.A. (Hons.).
St. Xavier's College, Palamcottah	The Rev. S. Arulsami, S.J., M.A., L.T.
Government Victoria College, Palghat	Mr. S. R. U. Savoor, M.A., D.Sc., Bar.-at-Law.
Madras Christian College, Tambaram (Chingleput District)	The Rev. A. J. Boyd, M.A.
M.D.T. Hindu College, Tinnevely	Rao Sahib Alexander Gnana- muttu, M.A.
St. Joseph's College, Trichinopoly	The Rev. Jerome D'Souza, S.J., B.A. (Hons.).

Holy Cross College, Trichinopoly (Women)	Mother Sophie, B.C., M.A.
National College, Trichinopoly	Mr. V. Saranatha Ayyangar, M.A.
St. Thomas' College, Trichur	The Rev. John Palocaren, M.A.

*Professional College (1)*

Agricultural College, Coimbatore	Mr. R. C. Broadfoot, N.D.A., C.D.A. (Hons.).
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## ORIENTAL COLLEGES (21)

Sri Jagadguru Vidyasthanam, Jambukeswaram (Trichy District)	Brahma Sri Rama Sastrigal.
The Vaidika Dharma Sam- vardhini Sanskrit College, Kallidaikuruchi (Tinne- velly District)	Brahma Sri Y. Anantanarayana Ayyar.
Shrimath Bhuvanendra Sanskrit Mahavidyalaya, Shri Srinivas Ashram, Karkal	Mr. K. V. Kamath, B.A. (Hons.), B.O.L., L.T.
The Kerala Oriental College, Katampazhipuram (Mala- bar)	Mr. C. K. Appukutti Guptan.
Madrasa-Islamiah, Kurnool	Maulana Moulvi Muhd. Umar Sahib.
The Madras Sanskrit College, Mylapore, Madras	Brahma Sri T. V. Ramachandra Dikshitar.
The Venkataramana Medical School and Dispensary, Mylapore, Madras	Vaidya Ratna Pandit N. V. Krishna Wariyar.
Rameswaram Devasthanam Patasala, Madura	Mr. V. Subrahmanya Ayyar, B.A., L.T.
Sri Balayaswamigal Tamil College, Mailam (S. Arcot)	Mr. S. Somasundaram Ayyar, B.A., L.T.
Ganesa Sen Tamil Kalasala, Melasivapuri (Puducottah State)	Mr. P. R. Minakshisundaram, B.A. (Hons.).

Jamia-Darus-Salam, Omerabad	Maulana Muhd. Fazlullah Sahib.
Central Sanskrit College, Pattambi (Malabar)	Mr. K. V. Narayana Sastri.
Sahitya Dipika Sanskrit College, Pavaratti	Mr. P. T. Kuriyakku.
Mahajana Sanskrit College, Perdala	Mr. B. Narayana Bhat, B.A.
Harihara Sanskrit College, Puthukode	Brahma Sri P. A. Krishna Sarma.
Veda Vedanta Bodhini Sans- krit College, Sholinghur	Mr. P. B. Anantachariyar.
The Sanskrit College, Sriperumbudur	Pandit T. Asuri Ramanuja- charya.
Karanthai Pulavar Kalloori, Tanjore	Mr. N. M. Venkatasami Nattar.
Sri Venkateswara Sanskrit College, Tirupati	Mr. T. A. Venkateswara Dikshi- tar.
The Rajah's College of Sanskrit and Tamil Studies, Tiruvadi	Mr. P. S. Subrahmanya Sastri, M.A., L.T., Ph.D.
S.M.S.P. Sanskrit Dwaita Vedanta Siromani College, Udipi	Mr. M. Ramachandra Rao, M.A.
Bakiyatussalihat Arabic College. Vellore	(Vacant).

### Constitution of the University

The principal authorities of the University are the Senate which consists of 205 members, the Syndicate which consists of 19 members, the Academic Council which consists of 174 members, the Standing Committee of the Academic Council which consists of 9 members, and the several Faculties, Boards of Studies and such other authorities as may be declared by the Statutes to be authorities of the University.

The Senate is the supreme Governing Body of the University and the Syndicate is the Executive Body. The Academic Council is the Academic Authority of the University and deals with the general regulation of teaching and examination within the University.

**Number of the Students in the University for several  
Examinations and Number of Students that were  
successful at the Examinations, 1940**

	Mar.-July, 1940		Sep.-Dec., 1940	
	Exam- ined	Passed	Exam- ined	Passed
Pre-University .. ..	231	91	..	..
(Matriculation)				
Intermediate .. ..	5,041	2,447	2,507	961
(Arts and Science)				
B.A. Part I .. ..	1,414	825	667	312
B.A. Part II .. ..	1,227	1,044	246	195
B.A. Part III .. ..	1,404	1,039	311	153
B.A. (Hons.) (Preliminary) ..	220	163	48	38
B.A. (Hons.) (Final) ..	171	163	..	..
M.A. .. ..	77	55	..	..
M.Litt. .. ..	8	7	5	4
D.Litt. .. ..	6	2	1	1
B.Sc. Part I .. ..	537	331	222	140
B.Sc. Part II .. ..	320	274	59	33
B.Sc. (Hons.) Part I ..	55	40	14	11
B.Sc. (Hons.) Part II—				
Main .. ..	48	45	..	..
Subsidiary .. ..	35	35	1	1
M.Sc. .. ..	15	13	13	10
D.Sc. .. ..	9	6	5	3
B.Sc. (Ag.) First Examination ..	52	42	..	..
B.Sc. (Ag.) Second Examination	50	35	..	..
B.Sc. (Ag.) Final Examination	44	39	..	..
L.T. .. ..	339	247	85	58
F.L. .. ..	275	142	99	56
B.L. .. ..	226	128	104	68
M.L. .. ..	16	3	..	..
Pre-Registration .. ..	212	134	79	53
First M.B.B.S. Part I ..	112	88	85	65
Do. Part II ..	136	67	108	61
Second M.B.B.S. Part I ..	74	63	62	56
Do. Part II ..	109	69	91	59
Final M.B.B.S. Part I ..	57	49	82	59
Do. Part II ..	122	55	123	43
B.S.Sc. Part I .. ..	4	2	2	2
B.S.Sc. Part II .. ..	5	3	..	..
M.D. .. ..	10	2	..	..
M.S. .. ..	9	3	..	..
B.Sc. (PHARMACY) Preliminary	10	3	7	7
Diploma in Midwifery (D.G.O.)	3	1	4	4
F.E. .. ..	189	123	..	..
B.E. (Civil) .. ..	52	40	..	..
B.E. (Mechanical) .. ..	13	11	..	..
B.E. (Electrical) .. ..	36	31	..	..
B.V.Sc. Preliminary .. ..	23	18	35	27
B.V.Sc. Intermediate .. ..	17	8	31	16
B.V.Sc. Final .. ..	12	3	12	7

## ORIENTAL TITLES

		Mar.-July, 1940		Sep.-Dec., 1940	
		Exam-ined	Passed	Exam-ined	Passed
Preliminary and Final	..	64	31	..	..
Preliminary	..	567	314	..	..
Final	..	430	261	..	..
Certificates of Proficiency in Oriental Learning	..	33	13	..	..
Entrance Test to the Vidvan Course	..	183	86	..	..
Bachelor of Oriental Learning	..	35	19	..	..
Master of Oriental Learning	..	4	1	..	..

## OTHER DIPLOMAS

Diploma in Economics	..	3	3	..	..
Diploma in European Language :					
French	..	6	3	..	..
German	..	13	8	..	..
Diploma in Librarianship	..	1	1	..	..
Diploma in Geography	..	20	9	..	..
Diploma in Indian Music	..	12	5	..	..
Diploma in Politics and Public Administration	..	12	6	..	..

## Scholarships and Medals

There are a large number of endowed Scholarships, Medals and Prizes awarded by the University for proficiency in the several examinations. The amount of endowed funds in Government Securities, on the 31st March 1941, was Rs. 7,74,000.

## Library, Museums, etc.

The University has a library called the University Library, the affairs of which are managed by the Syndicate. It has an annual income of about Rs. 68,000 towards its upkeep and maintenance.

The University has up to date about 98,037 volumes in its main Library and 20,098 volumes in the sectional libraries.

## Provision for Research

University Studentships and Fellowships for research work are awarded in different subjects, the value of which ranges from Rs. 60 per month to Rs. 125 per month. Such studentships have been awarded for research in English, Philosophy, History, Economics, Politics and Public Administration, Mathematics, Statistics, Biochemistry, Chemistry, Physics, Botany, Zoology, Geology, Physiology, Engineering, Medicine, Agriculture, Geography, Sanskrit, Tamil, Telugu, Malayalam, Arabic, Urdu and Indian Music.

### Publication and Research Work

The University generally undertakes the publication of the results of research, lectures and other theses. The University publications are:—

#### GENERAL

1. Dravidic Studies, Vols. 1 to 3.
2. History of Sri Vaishnavas, by Mr. R. Gopinatha Rao.
3. Psychological Tests of Mental Abilities, by Dr. A. S. Woodburne.
4. A Study of the Optical Properties of Potassium Vapour, by Dr. A. L. Narayan.
5. Absorption Spectra and their bearing on the Structure of Atoms and Molecules, by Dr. A. L. Narayan.
6. Investigations on the Molecular Scattering of Light, by Dr. K. R. Ramanathan.
7. The Kaveri, the Mukari and the Sangam Age, by Mr. T. G. Aravamudan.
8. Dravidic Studies, No. IV—On the Octaval System of Reckoning in India, by Dr. Mark Collins.
9. Stone Age in India, by Mr. P. T. Srinivasa Ayyangar.
10. Anatomical and Taxonomic Studies of some Indian Fresh and Amphibious Gastropods, by Dr. H. Srinivasa Rao.
11. \*India through the Ages (Sir William Meyer Lectures, 1929), by Dr. Sir Jadunath Sirkar.
12. Political Theory of the Government of India, by Mr. M. Ratnaswami.
13. Ante-natal, Natal, Neo-Natal Mortality of Infants, by Dr. A. Lakshmanaswami Mudaliyar.
14. Critical Survey of the Malayalam Language and Literature, by Mr. A. Krishna Pisharoti.
15. Records of the Indian Museum, Vol. XXXI, Part I, by Mr. K. S. Padmanabha Ayyar.
16. Restricted Relativity, by the Rev. D. Ferroli, S.J.
17. \*Tamil Sangam Age, by Mahamahopadhyaya V. Swaminatha Ayyar.
18. Rasa and Dhvani, by Dr. A. Sankaran.
19. Essay on the Origin of South Indian Temples, by Dr. N. Venkataramanayya.

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\* Out of stock.



20. New Light on Fundamental Problems, by Dr. T .V. Seshagiri Rao Naidu.
21. Indian Currency System, 1835-1926 (Sir William Meyer Lectures, 1930), by Sir J. C. Coyajee.
22. \*Political Theory of Imperialism, by Mr. K. Zachariah.
23. The Problems of World Economy, by Prof. V. G. Kale.
24. Evolution of Hindu Administrative Institutions in South India (Sir William Meyer Lectures, 1931), by Dr. S. Krishnaswami Ayyangar.
25. Civilization as a Co-operative Adventure (Principal Miller Lectures of 1931), by Prof. A. R. Wadia.
26. The Anatomy and Mechanism of the Tongue of *Rana hexadactyla*, by Dr. C. P. Gnanamuttu.
27. An Indian Federation (The Rt. Hon'ble V. S. Srinivasa Sastri Lectures, 1933), by Diwan Bahadur A. Ramaswami Mudaliar.
28. The Challenge of the Temporal Process (Principal Miller Lectures, 1933), by the Rev. Dr. A. G. Hogg.
29. Purpose and Progress (Principal Miller Lectures, 1934), by the Rev. John Meckenzie.
30. Considerations on some Aspects of Ancient Indian Polity (Sir Subrahmanya Ayyar Lectures, 1914), by Rao Bahadur K. V. Rangaswami Ayyangar (Second Edition).
31. Inter-Statal Law—The Law affecting the Relations of the Indian States with the British Crown (Sundaram Ayyar-Krishnaswami Ayyar Lectures for 1933-34), by Sirdar K. M. Panikkar.
32. Problems in Filariasis (Maharaja of Travancore-Curzon Lectures, 1934-35), by Dr. T. Bhaskara Menon.
33. Some Aspects of Economic Planning (Sir William Meyer Lectures, 1932-33), by Mr. N. S. Subba Rao.
34. Some Trends of Modern Public Finance (Sir William Meyer Lectures, 1933-34), by Rao Bahadur K. V. Rangaswami Ayyangar.
35. Studies in Tamil Literature and History, by Mr. V. R. Ramachandra Dikshitar.
36. The Marriage Customs and Songs of the Syrian Christians of Malabar, by Dr. P. J. Thomas.

37. Tamil Literature under the Later Cholas, by Sry. T. N. Thanu Ammal.
38. The history of the Poets of Southern India and the Deccan, by Moulvi Muhammad Munawar Gowhar Sahib Bahadur.
39. Humanism and Indian Thought (Principal Miller Lectures, 1935), by Mr. A. Chakravarti.
40. Indian Political Theories, by Sir C. P. Ramaswami Ayyar (The Rt. Hon'ble V. S. Srinivasa Sastri Lectures, 1936-37).
41. Ophthalmology in its Relation to Clinical Medicine, by Rao Bahadur Dr. K. Koman Nayar [Maharaja of Travancore-Curzon Lectures (Medicine), 1936-37].
42. A Critique on Nicolai Hartman's Ethics, by Mr. P. V. S. Narayana.
43. The Regional Balance of Man (Sir William Meyer Lectures, 1935-36), by Radhakamal Mukherjee.
44. Pre-historic Civilization of the Indus Valley (Sir William Meyer Lectures, 1935), by K. N. Dikshit.
45. Individual and Social Progress (Miller Lectures), by Hari Das Bhattacharya.
46. Some Aspects of Ancient Indian Culture (Sir William Meyer Lectures, 1938-39), by Dr. Bhandarkar.
47. The Individual in Progress, by Prof. P. Narasimban (Principal Miller Lectures, 1939-40).
48. Dipole Moments in Chemistry, by Dr. A. Govinda Rao.
49. Ahimsa and Asunga, by Sir P. S. Sivaswamy Ayyar (Basant Memorial Lectures).
50. The New Constitution and After, by Sir Shaafat Ahmed Khan (The Rt. Hon'ble Sastri Lectures, 1941-42).

#### HISTORICAL SERIES OF THE UNIVERSITY

1. Sources of Vijayanagar History, by Dr. S. Krishnaswami Ayyangar.
2. The Nayaks of Madura, by Mr. R. Satyanatha Ayyar.
3. History of Pallavas of Kanchi, by Mr. R. Gopalan.
4. Hindu Administrative Institutions, by Mr. V. R. R. Dikshitar.
5. Historical Inscriptions of South India, by Robert Sewell.

6. Origin and Early History of Saivism in India, by Mr. C. V. Narayanan.
7. Studies in Cola History and Administration, by Mr. K. A. Nilakanta Sastri.
8. The Mauryan Polity, by Mr. V. R. R. Dikshitar.
9. The Colas, Vol. I, by Mr. K. A. Nilakanta Sastri.
10. The Colas, Vol. II, by Mr. K. A. Nilakanta Sastri.
11. Studies in the History of the Third Dynasty of Vijayanagar, by Dr. N. Venkataramanayya.
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13. Administration and Social Life under Pallavas, by Dr. C. Minakshi.
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15. Foreign Notices of South India, by Mr. K. A. Nilakanta Sastri.
16. Administration and Social Life under Vijayanagar, by Mr. T. V. Mahalingam.
17. Early History of Andhra Country, by Mr. K. Gopalachari.

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3. A Report on the Modi MSS. in the Tanjore Palace Library, by Mr. R. S. Shelvankar.
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5. Commodity Price in South, by Dr. P. J. Thomas and Mr. N. Sundararama Sastri.
6. Handloom Industry in South India, by Dr. K. S. Venkataraman.
7. Some South Indian Villages—A Review, by Dr. P. J. Thomas and Mr. K. C. Ramakrishnan.

#### PUBLICATIONS OF THE INDIAN PHILOSOPHY DEPARTMENT

1. Sivadvaita Nirnaya, by Mr. S. S. Suryanarayana Sastri.
2. Sivadvaita of Srikanta, by Mr. S. S. Suryanarayana Sastri.
3. Samkhya Karika, by Mr. S. S. Suryanarayana Sastri.
4. The Siddhantalesasangraha of Appayya Dikshita, Vol. I, by Mr. S. S. Suryanarayana Sastri.
5. Do. Vol. II—Roman and Sanskrit Text.  
Do. Vol. II—Sanskrit Text alone.

#### *Bulletins of the Department—*

1. Samkhya Karika studied in the light of the Chinese version, by Mr. S. S. Suryanarayana Sastri.
2. A Critique of Difference, by Mr. S. S. Suryanarayana Sastri and Mr. T. M. P. Mahadevan.

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1. Agastya in the Tamil Land, by Mr. K. N. Sivaraja Pillai.
2. Purananutrin Palamai, by Mr. K. N. Sivaraja Pillai.
3. The Chronology of the Early Tamils, by Mr. K. N. Sivaraja Pillai.
4. Paranar, by Mr. V. Venkatarajulu Reddiar.
5. Kapilar, by Mr. V. Venkatarajulu Reddiar.
6. Nanartha Dipikai, by Mr. S. Anavaratavinayakam Pillai.
7. Sivagara Yogins Sivaneri Prakasam, by Mr. S. Anavaratavinayakam Pillai.

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2. Purattirattu, by Rao Sahib S. Vaiyapuri Pillai.
3. Dravidic Pronouns, by Mr. V. Venkatarajulu Reddiar.

4. Tamil Kavyas, by Mr. K. V. Jagannatha Iyer.
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#### TELUGU SERIES OF THE UNIVERSITY

1. Vishnu Puranam, edited by Mr. K. Ramakrishnayya.
2. Prabhavati Pradyumnam, its Sources, by Mr. P. Lakshmikantam.
3. Vishnumayanatakam, by Mr. K. Ramakrishnayya.
4. Studies in Dravidian Philology, by Mr. K. Ramakrishnayya.
5. Sandhi, by Mr. K. Ramakrishnayya.
6. A Critique on Nannichodadeva's Kumarasambhava, by Mr. S. Lakshmipathi Sastri (Bulletin).
7. Navanadhacharita, by Gaurana—Ed. by Mr. K. Ramakrishnayya.
8. Vallabhabhyudayam, by Mr. S. Lakshmipathi Sastri (Bulletin).
9. Paratatvarasayana, by Mr. S. Lakshmipathi Sastri (Bulletin).

#### MALAYALAM SERIES OF THE UNIVERSITY

1. Kuchelavirtham and Krishna Vilasam, by Mr. C. Achyuta Menon.
2. Subadraharanam, by Mr. V. T. Srimanavikrama Panikkar.
3. North Malabar Ballads, by Mr. C. Achyuta Menon.
- 4 & 5. Kavyajavita Vrtti, by Mr. P. Krishnan Nair, Vols. I and II.
6. Attakatha, by Mr. P. Krishnan Nair.
7. Ezhuthaccan and His Age, by Dr. C. Achyuta Menon.

#### KANNADA SERIES OF THE UNIVERSITY

1. Kavirajamarga, edited by Mr. A. Venkata Rao and Mr. H. Sesha Ayyangar.
2. Rasaratnakara by Salva, edited by Mr. A. Venkata Rao and Mr. H. Sesha Ayyangar.
3. Abhidana Vastu Kosha—Messrs. A. Venkata Rao and H. Sesha Ayyangar.
4. Pushpadanta Puranam, edited by Mr. A. Venkata Rao and Mr. H. Sesha Ayyangar.
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6. Oshadi Kosam, by Mr. A. Venkata Rao and Mr. H. Sesha Ayyangar.
7. Abhidanaratnamala, by Mr. A. Venkata Rao and Mr. H. Sesha Ayyangar.
8. Neminathapuram, by Mr. H. Sesha Ayyangar.

#### SANSKRIT SERIES OF THE UNIVERSITY

1. Taittiriya Pratisakhya, by Pandit V. Venkatarama Sarma.
2. Rigvedanukramani of Madhava Bhatta, Vol. I, by Dr. C. Kunhan Raja.
3. Brhati—Part I, edited by S. K. Ramanatha Sastri.
4. Do. Part II, do.
5. Linganusasana, edited by Pandit V. Venkatarama Sarma.
6. Katyayana Pratisakhya, edited by Pandit V. Venkatarama Sarma.
7. Critical Studies on Katyayana's Sukla Yajurveda Pratisakhya, by Pandit V. Venkatarama Sarma.
8. Sphotasiddhi, by Mr. S. K. Ramanatha Sastri.
9. The Unadi Sutras in Various Recensions, Parts I, II, IV and VI, by Dr. T. R. Chintamani.
10. The Rig Veda Bhashya of Skandaswamin (First Astaka), edited by Dr. C. Kunhan Raja.
11. Prakatarthavivaranam, Vols. I and II, by Dr. T. R. Chintamani.
12. Nanartha Sangraha of Ajyapala, by Dr. T. R. Chintamani.
13. Saraswatikantabarana of Bhojadeva, edited by Dr. T. R. Chintamani.
14. Nayaviveka of Bhavanatha Misra, edited by Mr. S. K. Ramanatha Sastri.
15. Slokavarthyakavyaka, by Mr. S. K. Ramanatha Sastri.
16. Prakriyasarvasvam, by Dr. C. Kunhan Raja.
17. Srimad Bhagavadgita with Sarvatobhadra, by Dr. T. R. Chintamani.

#### *Bulletins of the Department—*

1. Sahitya Ratnakara, by Dr. T. R. Chintamani.
2. Raghunathabhyudaya of Ramabhadramba, edited by Dr. T. R. Chintamani.
3. Vararuciniruktasamuccaya, by Dr. C. Kunhan Raja.

## PUBLICATIONS OF THE ISLAMIC DEPARTMENT OF THE UNIVERSITY

1. Burhan's Tuzuk-i-Walajahi, edited by Mr. S. Md. Hussain Nainar, Parts I and II.
2. Diwani-i-Bedar, by Md. Hussain Mahvi.
3. Diwani-i-Azfari, by Md. Hussain Mahvi.

*Bulletins of the Department—*

1. Waquiet-i-Azfari, by Md. Hussain Mahvi.
2. Seydakkadi Nondi Natakam, by Dr. S. Md. Hussain Nainar.
3. Hindi, High Hindi, Dakani and Urdu, by Dr. S. Md. Hussain Nainar.

## INDIAN MUSIC DEPARTMENT BULLETIN

1. Ragas of Carnatic Music, by Mr. N. S. Ramachandran.

**'Extension Work**

The University arranges for a number of ordinary University Lectures, Vacation Lectures and certain Special Lectures.

University Extension Boards, constituted at Trichinopoly, Madura, Tinnevely, Ernakulam, Coimbatore and Mangalore arrange special extension and popular lectures for the benefit of the public.

Honorary Readers, appointed annually by the Syndicate, deliver lectures in their subjects which are of the Honours or Research standard.

Besides, there are about a dozen endowments made specifically for the purpose of inviting experts to deliver courses of lectures on topics connected with Medicine, Engineering, Agriculture, Politics, Constitutional Law, Indian Philosophy, Æsthetics, Ancient Indian Culture, History, Economics and Sanskrit.

Teachers of the University also deliver advanced courses of lectures in their subjects.

**Military Training**

There is a University Training Corps to give Military Training to undergraduates and graduates of the University. The Syndicate sanctions an annual contribution of Rs. 4,444 to the funds of the Corps and also pays a grant of about Rs. 4,800 towards the expenses of the Annual U.T.C. camp mess to the colleges.

### **Budget: Provident Fund**

The Budget Estimate of the University for each year (April to March) is placed before the Senate for its consideration and adoption at its Annual Meeting in March of every year.

A Provident Fund has been instituted for the benefit of the permanent teachers and servants (other than the menial establishment) of the University with effect from April 1929, to which the members subscribe  $6\frac{1}{4}$  per cent. of their monthly salary and the University pays an equal contribution.

### **Women's Education**

There are 4 constituent and 4 affiliated colleges for the education of women under Arts and Teaching Faculties, 6 recognized or affiliated up to the B.A. standard, and 2 recognized in the Faculty of Teaching. Women students are also admitted in other colleges.

### **Students' Information Bureau, and its activities**

The Students' Advisory Committee has been replaced by the University Students' Information Bureau.

The main functions of the Bureau are:—

(1) To furnish information and advice to Indians proceeding to England and other foreign countries for further studies.

(2) To circulate to Colleges and other institutions in India the educational, financial and social information collected by the Bureau in London.

(3) To communicate with the Central Bureau on behalf of students before they start, or on behalf of their parents when they are in England.

(4) To help prospective candidates for the Indian Civil Service to assess their ability and to enable them to compute their chance of success at the examination, and to advise them in general.

*Secretary.*—Mr. R. N. Selvam, M.A.

### **Provision for Safeguarding Health, Medical Inspection, etc.**

Provision has been made in the Regulations for inspection by qualified Medical Officers of students in the Junior Intermediate and Junior B.A. classes and for introduction of compulsory Physical Education in the Intermediate course.



## Admission to the University, Courses of Studies, Degrees and Examinations

*Degrees, Titles and Diplomas.*—The University offers in Arts the Degrees of B.A. (Pass and Honours), M.A., M.LITT., and D.LITT., in Science the Degrees of B.Sc. (Pass and Honours), M.Sc. and D.Sc. The Professional Degrees are: L.T., B.Ed., M.Ed., B.L., M.L., LL.D., M.B. & B.S., M.D., M.S., D.G.O., B.S.Sc., B.Sc. (Pharmacy), B.E., B.Sc. (Agriculture), and B.V.Sc. Holders of Professional Degrees have also been made eligible for the Research Degrees. There are also Diplomas in Economics, in Politics and Public Administration, in Statistics, in Modern European Languages (French and German), in Geography, in Indian Music and in Librarianship. A Diploma in Co-operation has also been instituted, but the course therefor has not been opened. Under Oriental Studies, the Degrees and Titles conferred are B.O.L. and M.O.L., Siromani, Vidvan, Munshi-i-Fazil, Afzal-ul-Ulama, Adib-i-Fazil, Tabib-i-Kamil, Afzal-ul-Atibba, Malpan and Soppar. Under Fine Arts, the Degree and Title conferred are B.Mus. (Bachelor of Music) and Sangita Siromani.

### ADMISSION TO COURSES OF STUDY IN THE UNIVERSITY

Candidates for admission to the University should have passed the S.S.L.C. Examination of a recognized Board and declared eligible for University Courses or the Matriculation Examination of this or of any other recognized University.

For the purpose of admission to courses of study in this University, the Intermediate Examinations of other Indian Universities and of duly constituted Boards of Secondary and Intermediate Education and Degree Examinations of other Indian Universities will be recognized as equivalent to the corresponding examinations of this University, subject to the following conditions:—

- (1) That the normal length of the course prescribed leading to the examination sought to be recognized shall not be less than that for the corresponding examination of this University;
- (2) that, in cases of applications other than those specified in the Regulations governing admission of candidates holding the Diploma of L.M.P. to the M.B. & B.S. course, the course of study for the examination sought to be recognized shall have been pursued in a University or in a college recognized by a University, provided that it shall be competent for the Syndicate in special cases to waive the above condition; and

- (3) that in the case of admission to a professional course the restriction of subjects, if any, imposed on candidates of this University shall be applicable to candidates who have passed examinations of other Universities or Bodies.

Provision is also made for admission, under certain conditions, of *bona fide* teachers to Matriculation, Intermediate, B.A., M.A., B.Sc. (Honours) and L.T. Degree Examinations.

## COURSES OF STUDIES, DEGREES AND EXAMINATIONS

### ARTS

(1) *The Intermediate Examination.*—The course of study extends over two years. The subjects of study and the scheme of examination are: Part I: English; Part II: A Second Language. The course will comprise text-books, grammar, translation, and in the case of Indian Languages original composition.

The main object of the study of the Indian Languages is to train the student to use the language as a vehicle of current thought.

One of the following Languages at the option of the candidate:—

(a) Classical	Sanskrit	Arabic
	Greek	Persian
	Latin	Hebrew
		Syriac
(b) Modern		
(1) Foreign	French	German
(2) Indian	Tamil	Marathi
	Telugu	Oriva
	Kannada	Hindi
	Malayalam	Bengali
	Urdu	Burmese
		Sinhalese

Part III: Three subjects to be selected out of the following Groups A, B and C or Group D at the option of the candidate:—

Group A.—Mathematics, Physics, Chemistry, Natural Science, Geography, Psychology.

Group B.—Logic, Indian History, Ancient History, Modern History, A Third Language.

Group C.—Economic History of England and Economic Geography, Elements of Commerce and Accountancy, Agriculture, Electrical Engineering, Mechanical Engineering, Surveying, Drawing, Indian Music, Western Music, Architecture.

Group D.—The Preliminary Division of one of the following Oriental Titles: Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Adib-i-Fazil, Malpan, Soppar.

There will be three papers in (Part I) English and two papers in (Part II) Second Language and in (Part III)—Optional Subjects, two papers in each of the subjects selected in Groups A, B and C, and in Group D the papers as for each of the preliminary part of the titles of Siromani and Vidvan, and seven papers in each of the titles of Afzal-ul-Ulama, Munshi-i-Fazil and Adib-i-Fazil, and Soppar; and Malpan (six papers).

A candidate who has passed Parts I and II and in three of the subjects in Part III as prescribed, or in Group D shall be declared to have passed the Intermediate Examination.

A candidate who wishes to proceed to a Degree in Arts or Science shall be required to choose *two at least* of his optional subjects from either Group A or Group B. Candidates who qualify in Group D of the Intermediate may proceed only for the B.O.L. Degree.

A candidate shall be declared to have passed the examination if he obtains (1) not less than 35 per cent. of the marks in English under Part I, (2) 35 per cent. of the marks in the Second Language under Part II, and (3) 35 per cent. in each of the three subjects selected under Part III or 40 per cent. in Group D.

All other candidates shall be declared to have failed in the examination.

Candidates who pass in all the Parts at the same examination, and who obtain not less than 50 per cent. of the total marks shall be placed in the First Class. All other successful candidates shall be placed in the Second Class.

Candidates who pass in all the Parts at the same examination, and obtain not less than 60 per cent. of the marks in any subject shall be declared to have gained distinction in that subject.

Candidates who obtain the prescribed minimum number of marks in each Part in separate examinations and are declared to have passed the examination under the Regulations shall be placed in a separate list in the Second Class.

Provision has also been made to permit candidates who have passed the Intermediate Examination to qualify in a new subject or subjects under Part III. Such candidates are

required to undergo a course of study for one year in a college in the subject in which they desire to qualify.

(2) *Bachelor of Arts (B.A.) Pass.*—The course of study extends over a period of two years after the Intermediate Examination. The subjects of study and the scheme of examination are:—Part I: English Language and Literature—Composition, Modern Prose, Modern Poetry and Shakespeare (four papers); Part II: Second Language, one of the Classical or Modern (Foreign or Indian) Languages prescribed for the Intermediate Course (two papers); Part III: Optional Subjects, one of the following Groups: (i) (a) Mathematics (6 papers), (b) Mathematics (6 papers), (c) Statistics [5 papers (written) and a Practical Examination]; (ii) two of the following (one as main subject and the other as subsidiary subject): (a) Mathematics, (b) Physics, (c) Chemistry, (d) Botany, (e) Zoology, (f) Geology, (g) Physiology, (h) Electrical Engineering, and (i) Mechanical Engineering. [(h) and (i) to be taken as subsidiary subjects only to Physics as main subject (written and practical examinations)]; (iii-a) Philosophy (5 papers); (iii-b) Philosophy, History and Politics (5 papers); (iv-a) History and Economics (5 papers), (iv-b) Economics and History (5 papers), (iv-c) Politics and History (5 papers), (iv-d) Islamic History and Culture (5 papers); (v) Languages other than English (6 papers); (vi) Indian Music (2 papers) (written and practical examinations); (vii) Western Music (2 papers) (written and practical examinations); (viii) Geography (5 papers—written and a practical examination); (ix) Home Science (4 papers—written and practical examinations). No college is, however, as yet affiliated to or recognized by this University in Groups (vii) and (ix). The minimum for a pass is 35 per cent. in Part I English, 35 per cent. in Part II Second Language and in Part III 30 per cent. in each division of the optional groups, and 35 per cent. in the total except in the case of Group (vi) Indian Music and Group (vii) Western Music, in which a candidate should obtain not less than 35 per cent. of the total marks and not less than 35 per cent. in the Practical Examination and not less than 30 per cent. in the Theory Examination. Candidates getting not less than 60 per cent. are placed in the First Class while those obtaining not less than 50 per cent. are placed in the Second Class, and those obtaining less than 50 per cent. are placed in the Third Class. Provision has been made to enable candidates to take Hindi with Sanskrit or Urdu under Group (v).

Provision has also been made to permit Bachelors of Arts to qualify in a different optional group or a different Second Language. Such candidates are required to undergo a course of one year in a constituent or affiliated college in the subject in which they desire to qualify.

(3) *Bachelor of Arts (B.A.) Honours*.—The course extends over a period of three years after the candidates have passed the Intermediate Examination. Pass graduates are required to study only for two years. Candidates failing in an Honours Examination will not be allowed to re-appear for the same. A candidate for Honours who has not already graduated is required to pass a Preliminary Examination in English in (1) Composition, and (2) English Prose. In the case of candidates who have selected Branch VII (English Language and Literature), the Preliminary Examination will be in (1) Composition as above and (2) The History of England treated in relation to the History of English Language and Literature. The subjects of study for this Examination are as follows: I-A. Mathematics, Pure (3 papers), Applied (3 papers) and Special Subjects (2 papers); I-B. Statistics (7 papers and a practical examination) II. Philosophy (7 papers); and a *viva voce* examination); III. History (7 papers); IV. Economics (7 papers); V. Politics (7 papers); VI. Two Languages other than English—six papers in each language; VII. English Language and Literature (10 papers and a *viva voce* examination); VIII. Sanskrit Language and Literature (9 papers); IX. Arabic Language and Literature (9 papers); X. Syriac Language and Literature (9 papers); XI. A Dravidian Language or Urdu and its Literature (8 papers); XII. Hindi Language and Literature (8 papers); and XIII. Islamic History and Culture (7 papers).

The Science subjects now form subjects of study for the B.Sc. (HONS.) Degree Course.

The minimum for a pass is 40 per cent. in Part I, English and in Part II, 40 per cent. of the total marks, and 30 per cent. in each of the three divisions of the examination. Candidates getting 60 per cent. or more are placed in the First Class, those getting not less than 50 per cent. are placed in the Second Class and those getting not less than 40 per cent. in the Third Class. Candidates who have failed in the B.A. (HONS.) Examination but who obtain  $33\frac{1}{3}$  per cent. in the total and 25 per cent. in each division of the examination are recommended for the B.A. Degree.

(4) *Master of Arts (M.A.)*.—A Bachelor of Arts of this University (whether in Arts or Science subjects) who has passed the B.A. Degree Examination under the Old, New or Transitory Regulations, may, after an interval of two years from the date of qualifying for that Degree, appear for the M.A. Degree Examination, on the production of a certificate of attendance at a college after undergoing two years post-graduate course,

The course of studies, syllabuses, subjects, scheme of marks and time-tables, marks qualifying for a pass and divisions of the subjects for the examination for the Degree of Master of Arts, shall be the same in all Branches as for the Final Examination for the Degree of Bachelor of Arts (Honours) conducted in the year in the subjects in the corresponding Branch.

Provision has been made to permit Bachelors of Arts of other Universities to appear for the M.A. Degree Examination after taking a Post-Graduate course for two years in a College attached to this University.

Provision has also been made (1) for Bachelors of Arts who had put in post-graduate attendance in colleges prior to 1937-38 to appear for the M.A. Degree Examination without any further attendance, and (2) for Bachelors of Arts (Honours) or Masters of Arts in one subject to qualify in a different branch of subject after undergoing the prescribed course for two academic years in a college of this University.

(5) *Degree of Master of Letters (M.Litt.)*.—A candidate for the M.LITT. Degree is required to have graduated in an Arts subject, and to work in an Institution recognized by or affiliated to this University under a teacher previously approved by the Syndicate for a period of two years or one year respectively, in the case of (1) a Bachelor of Arts or Bachelor of Music and (2) Bachelor of Arts (Honours) or Master of Arts or Licentiate in Teaching in an Arts subject. Candidates may be required to submit to an oral examination, at the discretion of the Board of Examiners.

Graduates of other universities are also eligible to submit theses for the above degree, provided they have resided for two academic years, prior to the date of their application, within the University limits or area, and subject to their satisfying the other conditions laid down.

Provision has been made to permit those who had submitted their theses for the PH.D. Degree (since abolished) but were not awarded the degree, to submit theses for the M.LITT. Degree, without registration and further study, till the end of the academic year 1941-42.

(6) *Degree of Doctor of Letters (D.Litt.)*.—A candidate for the D.LITT. Degree should be a B.A. (HONS.) or M.A. or M.LITT. of this University and may submit his thesis on a subject which should fall within the purview of the Faculty of Arts, Teaching or Fine Arts five years after having taken the B.A. (HONS.) or M.A. Degree, and three years after having taken the M.LITT. Degree. Candidates may be required to submit to an oral examination, at the discretion of the Board of Examiners.

## SCIENCE

(1) *The Intermediate Examination*.—The Intermediate Examination leading to the B.Sc. Degree courses is the same as in the Faculty of Arts.

(2) *Bachelor of Science (B.Sc.)*.—After passing the Intermediate Examination, a candidate must prosecute his studies for a period of two years. The subjects of study and the scheme of examination are as follows:—Part I (which may be taken at the end of the first year of study or at the end of the second year): Any one of the following languages:—

(i) English; (ii) Classical: Sanskrit, Greek, Latin, Arabic, Persian, Hebrew, Syriac; (iii) Modern: (a) Foreign—French, German; (b) Indian—Tamil, Telugu, Kannada, Malayalam, Urdu, Marathi, Oriya, Hindi, Bengali, Burmese, Sinhalese.

Part I: English (2 papers)—(1) Composition, (2) Prose; Indian Languages (2 papers)—(1) Translation, (2) Composition; Other Languages (2 papers)—(1) Translation, (2) Prescribed text-books.

Part II: any three of the following to be selected by the candidate of which one shall be main and the other two subsidiary subjects or Home Science:

*Main Subjects:*

Mathematics (4 papers), Physics (4 written and 1 practical), Chemistry (3 written and 1 practical), Botany (2 written and 2 practical), Zoology (2 written and 2 practical), Geology (2 written and 2 practical), Physiology (2 written and 2 practical), Home Science (6 written and 4 practical). Electrical Engineering and Mechanical Engineering can be taken only as subsidiary subjects with Physics as main subject. In all the subsidiary subjects there shall be a written examination (2 papers) and a practical examination (except in the case of Mathematics). In order to obtain a pass, the minimum required is 35 per cent. of the total marks in Part I and 30 per cent. of the marks allotted to each subsidiary subject and 35 per cent. in the total for the main subject and 35 per cent. of the total number of marks in Part II; except in the case of Home Science, where the minimum required is 30 per cent. in each of the three divisions and 35 per cent. in the total. To obtain distinction in Part I, a candidate must obtain 60 per cent. of the total marks. Successful candidates in Part II will be arranged in three classes; the First, consisting of those who obtain not less than 60 per cent., the Second, of those who obtain not less than 50 per cent., and the Third, the remainder.

Provision has been made for candidates who have passed the B.A. Degree or B.A. (HONS.) Preliminary or B.Sc. (HONS.)

Part I Examination to qualify for the B.Sc. Degree under certain conditions.

Provision has also been made for Bachelors of Science of this University to qualify again for the degree in an additional subject after one year's course in a college.

(3) *Bachelor of Science (B.Sc.) Honours*.—The course extends over three years after the Intermediate Examination. Graduates in Science seeking to study for Honours need study only for a period of two years; they are also exempted from Part I of the examination and the examination in the subsidiary subjects. The subjects of study and the scheme of examination are as follows:—Part I: English or French or German: (1) Prose, and (2) Composition on additional set books in the case of English and (1) Translation and (2) Prescribed textbooks in the case of French or German. Candidates obtaining 40 per cent. of the total marks are declared to have passed in this Part while those who obtain not less than 60 per cent. are declared to have passed with distinction. Part II: I-A. Mathematics (8 papers), I-B. Statistics (7 papers and a practical examination), or one of the following as main subject—II. Physics (6 written and 4 practical); III. Chemistry (5 written and 4 practical); IV. Botany (5 written and 4 practical); V. Zoology (5 written and 4 practical); VI. Geology (5 written and 4 practical); VII. Physiology (5 written and 4 practical); and any one of the following (other than the subject taken as the main subject) as a subsidiary subject—(1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Zoology, (6) Geology, (7) Physiology. The examination in the subsidiary subjects shall be the same as for the B.A. and B.Sc. Degrees. The other Regulations regarding the examination and the conferring of the Degree are the same as for the B.A. (Hons.).

A Bachelor of Science or a Bachelor of Arts in a Science subject may qualify for B.Sc. (Hons.) Degree after a two years' course in a college. Such students are exempted from the examination in Part I English and in the Subsidiary Subjects in which they have already passed; while students who have passed examinations of other Universities recognized by the Syndicate as equivalent to the B.Sc. or B.A. Degree Examination of this University should appear for and pass in the Main and Subsidiary Subjects in this University.

Provision has been made for Bachelors of Arts (Honours) in Science subjects or Bachelors of Science (Honours) to qualify in an additional Science Branch under certain conditions.

(4) *Master of Science (M.Sc.)*.—A candidate for the Degree is required to have graduated in Science and to work in a College or Research Institute under a Professor, or any other



person previously approved by the Syndicate, for a period of two years or one year respectively, in the case of (1) Bachelors of Arts and Science, or (2) Bachelors of Arts and Science (Honours) or M.A., or M.B. & B.S. or B.E., or B.Sc. (Ag.), or B.V.Sc., or L.T. in a Science subject and submit thereafter a thesis for approval. Candidates may be required to submit to an oral examination, at the discretion of the Board of Examiners.

Provision has been made to recognize on individual merits Research Institutes other than those managed by or attached to this University and Institutes or Departments attached to other universities (in cases where there are no facilities for the graduates of this University to conduct research in any Institute within the Madras University area) and the Teachers or Officers employed therein for the above purpose.

Graduates of other universities are also eligible to submit theses for the above degree, provided they have resided for two academic years, prior to the date of their application, within the University limits or area, and subject to their satisfying the other conditions laid down.

(5) *Doctor of Science (D.Sc.)*.—This is an examination by thesis, supplemented, when necessary, by an oral examination. A candidate for this Degree must be a Master of Arts in a Science subject or B.Sc. (Hons.), or M.B. & B.S. or B.E., or B.Sc. (Ag.) or B.V.Sc., or L.T. in a Science subject, or M.Sc. of this University. A Master of Science may submit his thesis three years after having qualified for the Degree, and the others after a lapse of four years after qualifying for the respective Degree.

Provision has been made for Bachelors of Arts in Science subjects and Bachelors of Science of this University to proceed to the D.Sc. Degree direct seven years after having qualified for the B.A. or B.Sc. Degree.

## COURSES OF STUDIES AND DEGREES LEADING TO PROFESSIONS

### LAW

(1) *Bachelor of Laws (B.L.)*.—Graduates of this or of any other recognized University are admitted to the course of study which extends over two years.

The First Examination in Law, to be held at the end of the first year, includes an examination in Jurisprudence (1 paper), Roman Law (1 paper), the Law of Contracts including Negotiable Instruments and Specific Relief (2 papers), the Law of Torts (1 paper) and Indian Constitutional Law (1 paper). Candidates are declared to have passed the examination if they

obtain not less than  $33\frac{1}{3}$  per cent. of the marks in Jurisprudence, Roman Law and Indian Constitutional Law taken together,  $33\frac{1}{3}$  per cent. in Contracts and the Law of Torts taken together, and not less than 40 per cent. of the total marks. Those who obtain not less than 60 per cent. are placed in the First Class, while those obtaining less than 60 per cent. and not less than 50 per cent. are placed in the Second Class, the remaining successful candidates in the Third Class.

Provision is made for pass in compartments (Divisions). A candidate who fails in the whole examination, but obtains not less than 50 per cent. of the marks in any Division will be exempted from re-examination in that Division.

The final examination in Law (B.L.) is open to those who have passed the First Examination in Law and have studied for a further period of one year. The subjects of study and the scheme of examination are as follows: Law of Property with special reference to the Transfer of Property Act, the Indian Trusts Act, the Indian Easements Act (2 papers), Hindu Law (1 paper), Muhammadan Law (1 paper), Principles of Land Tenures in the Madras Presidency (1 paper), the Law of Evidence (1 paper) and Criminal Law (Indian Penal Code) (1 paper).

The minimum for a pass is one-third of the marks in the Law of Property and Madras Land Tenures taken together, one-third of the marks in Hindu and Muhammadan Law taken together, and one-third of the marks in Criminal Law and the Law of Evidence taken together and not less than 40 per cent. of the total marks. Those who obtain not less than 60 per cent. are placed in the First Class, while those obtaining less than 60 per cent. and not less than 50 per cent. are placed in the Second Class, the remaining successful candidates in the Third Class.

Provision is made in the Regulations for pass in compartments (Divisions). A candidate failing in the whole examination should obtain 50 per cent. of the marks in the Division for a pass in that Division.

(2) *Master of Laws (M.L.)*.—No candidate will be admitted to the examination for the M.L. Degree unless he has passed not less than two years previously the examination for the B.L. Degree of this University or any other accepted Degree. Candidates of other Universities are, however, required to have resided within the University limits or area for a period of two academic years prior to the date of the examination and been during the period under the supervision of the Principal or other permanent member of the Law College staff.

One of the following branches may be offered:

Branch I—Jurisprudence.

Branch II—Constitutional Law and International Law.

Branch III—Crime and Tort.

Branch IV—Contracts including Mercantile Law.

Branch V—Hindu, Muhammadan and other Personal Laws.

Branch VI—Property.

(5 papers in each Branch.)

Candidates who obtain not less than one-third of the marks in each paper and not less than 40 per cent. on the whole, are declared to have passed the examination. Those who obtain 60 per cent. or more of the aggregate are placed in the First Class, those obtaining less than 60 per cent. and not less than 50 per cent. are placed in the Second Class, the remaining successful candidates in the Third Class.

(3) *Doctor of Laws (LL.D.)*—Candidates for this Degree may submit their theses one year after passing the M.L. Degree Examination of this University, and five years after passing the B.L. Degree Examination. There may further be an oral examination.

## MEDICINE

(1) *Bachelor of Medicine and Surgery (M.B. & B.S.)*.—The course of study extends over a period of five years after passing the Pre-Registration Examination. Candidates for admission must have passed the Intermediate Examination of this University with Physics and Chemistry as two of the three optional subjects or an accepted examination and must have subsequently studied for a period of six months in a college affiliated to or recognized by this University, the subjects of Inorganic Chemistry, Physics and Natural Science and passed the Pre-Registration Examination.

The scheme and subjects for the Pre-Registration Examination: One paper in each of the following:—Inorganic Chemistry, Physics and Natural Science (each according to a syllabus). There is also a practical examination in each subject. To pass the examination, a candidate must obtain 35 per cent. of the marks in the written and 35 per cent. of the marks in the practical tests in each of the three subjects. Candidates who obtain not less than 60 per cent. of the marks in any subject will be declared to have passed with distinction in that subject. Candidates who fail but obtain 40 per cent. in each of the written and the practical parts in any subject are exempted from re-

examination in that subject and candidates who fail in any subject are required to produce a certificate of further study which shall extend to the next succeeding examination.

The subjects of study and the scheme of examination for the First M.B. & B.S. Course are Organic Chemistry, Anatomy (including Elements of Human Embryology), and Physiology including Biophysics and Biochemistry. The examination in each subject is written, practical and oral, and can be taken in two parts separately:—Part I comprising Organic Chemistry at the end of the first academic year and Part II comprising Anatomy, including the Elements of Human Embryology and Physiology including Biophysics and Biochemistry after the completion of the two academic years of study. A candidate will be declared to have passed the examination, if he obtains not less than one-half of the marks in the written and oral examinations taken together and not less than one-half of the marks in the practical examination in each of the above subjects. Those who get not less than 70 per cent. of the aggregate number of marks are placed in the First Class.

The subjects of study and the scheme of examination for the Second M.B. & B.S. Course are:—Part I (a) Pharmacology, Part II (b) Hygiene and Preventive Medicine, (c) Pathology with Bacteriology, and (d) Ophthalmology. The examination in each subject will be written, practical and oral in (a), (b) and (c) and only written and oral in (d). A candidate will be declared to have passed the examination, if he obtains not less than one-half of the marks in the written and oral examinations taken together and not less than one-half of the marks in the practical examination in each of the subjects Pharmacology, Hygiene and Preventive Medicine and Pathology with Bacteriology, and not less than one-half of the marks in the written and oral examinations in Ophthalmology taken together. Those who obtain not less than 70 per cent. of the aggregate number of marks are placed in the First Class.

For the Final M.B. & B.S. Degree Course, the subjects of study and the scheme of examination are as follows:—The examination can be taken in two parts: Part I comprising Forensic Medicine; Part II comprising (a) Medicine including Therapeutics and Mental Diseases, (b) Surgery, and (c) Obstetrics and Gynæcology. The examination in each subject will be written and oral in the case of Part I, and written, clinical, practical and oral in each subject under Part II. A candidate for Part I of the Final M.B. & B.S. Degree Examination will be declared to have passed the examination if he obtains not less than one-half of the marks in the written and oral examinations taken together in the subject. A candidate for Part II will be declared to have passed the examination if he obtains: (a) (i) not

less than one-half of the marks in the written and oral examinations in Medicine taken together, and (ii) not less than one-half of the marks in the clinical examination in that subject; (b) (i) not less than one-half of the marks in the written, practical and oral examinations in Surgery taken together and, (ii) not less than one-half of the marks in the clinical examination in that subject; and (c) (i) not less than one-half of the marks in the written and oral examinations in Obstetrics and Gynæcology taken together, and (ii) not less than one-half of the marks in the clinical examination in that subject. Those who have either passed the whole examination at one time, or have passed each part separately on the first occasion of appearance therefor, obtaining not less than 70 per cent. of the marks in each\*Part, are placed in the First Class.

Candidates appearing for the Final M.B. & B.S. Degree Examination should complete Part II of the Examination in Medicine, Surgery, and Midwifery within a period which should not ordinarily exceed 24 months. Such candidates as do not pass all the parts of Part II within this period will be required to take the entire examination again. Candidates who pass in the first class and who obtain not less than 75 per cent. of the marks in any subject of the First, Second or Final M.B. & B.S. Degree Examination shall be deemed to have passed with distinction in that subject.

(2) *Doctor of Medicine*.—The course of study extends over three, two or one year of practical work, according as the candidate is working in the Medical Profession, Medical Hospital or is a first class M.B. & B.S. working in a hospital respectively. The subjects of study and the scheme of examination are as follows:—One of the following Branches of knowledge:

Branch I—Medicine: Medicine (1 paper), Medicine including Mental Diseases and Pathology (2 papers) and a Clinical and Oral Examination including an examination in Pathological Specimens.

Branch II—Midwifery including Diseases of Women and Children: Medicine (1 paper), Midwifery and Diseases of Women and Children including Pathology of these subjects (2 papers), an essay on one of two set subjects in Midwifery and Diseases of Women and a Clinical and Oral examination in Midwifery and Diseases of Women and Children including an examination in Pathological Specimens.

Branch III—Pathology: Medicine (1 paper), Pathology (2 papers) and a Practical and Oral examination in Pathology.

Branch IV—Tropical Medicine: Medicine (1 paper), Tropical Medicine including the Pathology of Tropical Diseases

(2 papers), and a Clinical and Oral examination including the examination of Pathological Specimens.

Branch V—Special Subjects: Any of the following: (a) Dermatology, (b) Radiology, (c) Psychiatry. Candidates will be examined in: (1) Medicine (1 paper in General Medicine which will be common for all candidates appearing for M.D.), (2) Special Subject (2 papers), (3) A Clinical examination in Medicine, (4) A Clinical or Practical and Oral examination including the examination of Pathological Specimens in the Special Subject.

Candidates approved by the examiners will be declared to have passed the examination.

(3) *Master of Surgery*.—The course of study extends over three, two or one year of practical work, according as the candidate is working in the Medical Profession, Medical Hospital or is a first class M.B. & B.S. working in a hospital respectively.

The following Branches are offered; (a) General Surgery, (b) Oto-Rhino Laryngology, (c) Ophthalmology, (d) Genito-Urinary and Venereal Surgery, (e) Orthopædics.

Candidates in General Surgery will be examined in Surgery (2 papers); Surgical Anatomy and Pathology (1 paper); Operative Surgery and the Use of Instruments, and a Clinical and Oral examination including the examination in Pathological Specimens. Candidates offering one of the specialities will be examined in: (1) Surgery (1 paper—common for all branches), (2) Special subject (2 papers), (3) A Clinical examination in Surgery, (4) A Clinical and Oral examination including the examination of Pathological Specimens in the Special Subject. Candidates approved by the examiners will be declared to have passed the examination.

Provision has also been made to enable candidates who have qualified for the M.B. & B.S. Degree of some other University recognized by the Medical Council of India and accepted by the Syndicate to appear for the M.D. or M.S. Degree Examination under certain conditions.

Provision has also been made for exempting candidates who have already passed the M.D. or M.S. Degree Examination of this University in one branch and desire to qualify in another branch for either M.D. or M.S. from appearing from that part of the examination which they have already taken and passed.

(4) *Bachelor of Sanitary Science*.—Candidates must be graduates in Medicine and Surgery of this University or hold corresponding degrees of other Universities or Licensing Bodies recognized for the purpose and the degree must be registered

with the Madras Medical Council before the candidate is admitted to the examination. The course of study extends over a period of not less than twelve calendar months. The subjects of study and the scheme of examination are as follows:

Part I.—(1) Chemistry and Physics in relation to Public Health, Climatology and Meteorology, (2) Bacteriology, (3) Medical Entomology and Parasitology. The examination in each subject includes a written paper, practical examination and a *viva voce*. Candidates who obtain not less than one-half of the aggregate marks in each subject in Part I of the examination shall be declared to have passed the examination.

Part II.—(1) Hygiene and Preventive Medicine and Public Health including Sanitary Engineering, (2) Epidemiology and Infectious Diseases, (3) Sanitary Law and Vital Statistics, (4) Public Health Administration. The examination in subjects (1) and (3) includes a written paper and a *viva voce*; that in (2) includes a written paper, a practical examination and a *viva voce*, and that in (4) consists of a practical examination only. Those who get not less than one-half of the aggregate marks in each subject in Part II of the examination shall be declared to have passed the examination.

Candidates who pass both parts of the examination at the first sitting and who obtain not less than two-thirds of the aggregate marks of both the parts together shall be declared to have passed in the First Class; and those obtaining less than two-thirds of the aggregate marks and not less than 50 per cent. of the total marks shall be declared to have passed the examination in the Second Class. Candidates obtaining not less than 75 per cent. of the marks in any subject shall be declared to have passed with distinction in that subject.

(5) *Diploma in Midwifery (D.G.O.)*.—The course of study for the diploma extends over a period of one year after qualifying for a Medical degree (M.B. & B.S. or L.M. & S.) of this University or of some other recognized University accepted as equivalent thereto. The students shall be examined in Midwifery, Gynæcology and diseases of a new-born child; and the examination will be largely practical. Candidates obtaining not less than one-half of the marks in each of the examinations will be declared to have passed the examination.

(6) *Bachelor of Science in Pharmacy [B.Sc. (Pharmacy)]*.—Candidates seeking admission to the course should have passed the Intermediate Examination of this or some other University with certain prescribed subjects. The course extends over a period of two academic years or six terms, and there will be a Preliminary Examination at the end of the second term and

a Final Examination at the end of the second year. The subjects for the examination will be as follows:—

*Preliminary:* General Chemistry, Organic Chemistry and Botany (written, practical and oral in each), and Physiology (written and oral only).

*Final:* Pharmaceutical Chemistry and Pharmaceutics (written, practical and oral in each) and Practical Pharmacognosy (practical and oral only).

Candidates for the Preliminary Examination will be declared to have passed the examination, if they obtain not less than one-half of the marks in the practical part and not less than one-half of the marks in the written and oral parts taken together in the case of General Chemistry, Organic Chemistry and Botany, and not less than one-half of the marks in the written and oral parts taken together in the case of Physiology. Candidates for the Final Examination will be declared to have passed the examination if they obtain in Pharmaceutical Chemistry and in Pharmaceutics not less than one-half of the marks in the practical part and not less than one-half of the marks in the written and oral parts taken together, and in Practical Pharmacognosy not less than one-half of the marks in the practical and oral parts taken together.

## ENGINEERING

*Bachelor of Engineering.*—The course extends over four years. Candidates for admission must have passed the Intermediate Examination. Subjects of study and the scheme of examination are as follows:—First Examination in Engineering, one paper in each of the following subjects: Mathematics I, Mathematics II, Physics, Chemistry, Applied Mechanics, Civil Engineering I, Civil Engineering II, Mechanical Engineering, Electrical Engineering, Surveying, Geometrical Drawing, Building Drawing and Machine-Drawing. The First Examination in Engineering (F.E.) will be held at the end of the second year of the course.

The Final Examination (B.E.) held at the end of the fourth year of the course is divided into three Branches: Civil, Mechanical and Electrical Engineering. Candidates may appear in any Branch.

*Subjects for Civil Branch.*—Candidates in the Civil Branch shall be examined in the subjects comprised under the following question papers: (1) Mathematics I, (2) Mathematics II, (3) Strength of Materials and Theory of Structures I, (4) Strength of Materials and Theory of Structures II, (5) Hydraulics, (6) Structural Engineering I, (7) Structural



Engineering II, (8) Highway Engineering and Railway Engineering, (9) Civil Engineering—Drawing and Design I, (10) Irrigation Engineering and Dock and Harbour Engineering, (11) Sanitary Engineering, (12) Surveying, (13) Civil Engineering—Drawing and Design II. Candidates shall also submit their laboratory note-books, survey field books, drawings and designs.

*Subjects for Mechanical Branch.*—Candidates in the Mechanical Branch shall be examined in the subjects comprised under the following question papers:—(1) Mathematics I, (2) Mathematics II, (3) Strength of Materials and Theory of Structures, (4) Theory of Machines, (5) Electrical Technology I, (6) Electrical Technology II, (7) Heat Engines I, (8) Heat Engines II, (9) Machine Drawing and Design I, (10) Fuels, Gas Plants and Boilers, (11) Hydraulic Machinery, (12) Workshop Practice and Machine Tools, (13) Machine Drawing and Design II. Candidates shall also submit their laboratory note-books, drawings and designs.

*Subjects for Electrical Branch.*—Candidates in the Electrical Branch shall be examined in the subjects comprised under the following question papers:—(1) Mathematics I, (2) Mathematics II, (3) Strength of Materials and Theory of Structures, (4) Theory of Machines, (5) Electrical Technology I, (6) Electrical Technology II, (7) Heat Engines, (8) Principles of Electrical Machinery I, (9) Principles of Electrical Machinery II, (10) Electrical Measurements and Measuring Instruments, (11) Power Generation, Transmission and Utilization I, (12) Power Generation, Transmission and Utilization II, (13) Machine Drawing and Design. Candidates shall also submit their laboratory note-books, drawings and designs.

In the First as well as in the Final examinations candidates obtaining not less than 33 per cent. in each of the divisions and not less than 50 per cent. of the aggregate marks will be declared to have passed the examination. In each examination the names of successful candidates are arranged in the order of proficiency as determined by the total marks obtained by each. Candidates obtaining not less than 66 per cent. of the aggregate marks in the B.E. Degree Examination, shall be declared to have passed with Honours.

### TEACHING •

*Licentiate in Teaching (L.T.).*—Candidates seeking admission to this degree must be graduates; the course of study extends over one year. The subjects of study and the scheme of examination are as follows: Theory of Education (A.B.) (1 paper), General Methods (C) (1 paper), School Organization and Hygiene (D) (1 paper), Methods of Teaching (E)

Optional subjects—two of the following (2 papers):—An Indian Language, English, Primary Education, Mathematics, Physical Science, Natural Science, History, Geography, Home Science and Music.

The course also includes practical training (observation and practice in teaching, the making of teaching equipment and school organization).

Candidates will also undergo courses in (a) Physical Education, and (b) Art or Music or Crafts as prescribed by the college. A candidate will be declared to have passed the examination if he obtains not less than 35 per cent. in each of the five papers and not less than 40 per cent. in the five papers taken together. Those who obtain not less than 60 per cent. of the total marks will be placed in the First Class and those who obtain not less than 50 per cent. will be placed in the Second Class, the remaining successful candidates in the Third Class. Those who obtain not less than 60 per cent. of the marks in a paper relating to the Methods of Teaching will be declared to have obtained distinction in that subject.

Provision has been made in the Regulations for certificated *bona fide* trained teachers who have passed the B.A. Degree Examination to appear for the L.T. Degree Examination after undergoing a special vacation course and study for one term in a Teachers' College.

*Bachelor of Education (B.Ed.).*—Candidates seeking admission to this degree should have taken the L.T. Degree of this University or a degree in some other University accepted as equivalent thereto. The course may be taken immediately after the L.T. or equivalent course, or after an interval of some years under certain conditions. The course will last for one academic year. The subjects of study and the scheme of examination are as follows:—Educational Psychology with emphasis on Experimental Education (1 paper), Educational Organization and Administration (1 paper), History of Education (1 paper), Current Problems in Indian Education—Six problems to be specified from time to time (1 paper) and Thesis (the subject for which should be submitted for approval not later than 1st August). Candidates will be declared to have passed the examination if they obtain not less than 50 per cent. of the marks in each of any two of the papers and not less than 35 per cent. in each of the remaining papers and have satisfied the Examiners in the thesis.

There is no college imparting instruction for the B.Ed. Degree course.

*Master of Education (M.Ed.).*—Candidates may present themselves for the degree two years after having qualified for

the B.Ed. Degree or a degree of some other University accepted as equivalent thereto. They will be required to work in a college recognized by or affiliated to this University under a teacher previously approved by the Syndicate for a period of two years, and submit thereafter a thesis for approval.

The other conditions are the same as those laid down for the M.Litt. or M.Sc. Degree.

### AGRICULTURE

*Bachelor of Science (Agriculture) [B.Sc (Ag.)].*—Candidates for the degree should have passed the Intermediate Examination with Chemistry and any two of the following subjects as optional subjects:—Mathematics, Physics, Natural Science, Botany, Zoology including Human Physiology, and Agriculture; and thereafter pursued a course of study for a period of three years at a College of Agriculture under the University and passed the prescribed examinations. The subjects of study comprising both Theoretical and Practical instruction are as follows:—Agriculture, Agricultural Botany, Agricultural Chemistry, Agricultural Zoology, Agricultural Engineering and Animal Hygiene. There are three examinations to be passed by candidates to qualify for the degree, an examination being held at the end of each year. Passing the First Examination is compulsory before a candidate is allowed to sit for the Second Examination.

The subjects for the three examinations are as follows:—

*First Examination*—Agriculture, Botany, Chemistry and Zoology.

*Second Examination*—Agriculture (Plant Husbandry), Agricultural Engineering, Agricultural Zoology and Animal Hygiene.

*Final Examination*—Agriculture—Economics and Farm Management, Animal Husbandry, Agricultural Botany and Agricultural Chemistry.

The examination in each subject shall be both written and practical. The minimum marks for a pass are 40 per cent. of the marks in the subjects for each examination.

### VETERINARY SCIENCE

*Bachelor of Veterinary Science (B.V.Sc.).*—After passing the Intermediate Examination with Chemistry or Natural Science as one of the optional subjects, a candidate must prosecute his studies for a period of five academic years at a College of Veterinary Science attached to the University and pass the prescribed examinations. The subjects of study comprising both Theoretical and Practical instruction are as follows:—

*Preliminary:* (a) Biology; (b) Chemistry.

*Intermediate: (Part I)*—(a) Physiology including Experimental Physiology, Biochemistry and Histology and Embryology; (b) Bacteriology including Immunology.

*(Part II)*—(a) Pathology, (b) Parasitology (Helminthology, Entomology and Protozoology).

*Final:* (a) Preventive Medicine including Clinical Medicine and Laboratory Technique; (b) Meat and Milk Inspection; (c) Animal Husbandry (Hygiene).

There are four examinations to be passed by candidates to qualify for the Degree; the first three examinations are held at the end of each year and the Final at the end of the fifth year of the course. Passing in the Preliminary Examination is compulsory before a candidate is allowed to sit for the Intermediate Examination. No candidate will be admitted to the Final Examination unless he has passed the Preliminary and Intermediate Examinations and has also obtained the Diploma in Veterinary Science awarded to the students of the Veterinary College by the Government of Madras or a Diploma recognized by the Syndicate as equivalent thereto. The examination in each subject shall be written, practical and oral. The minimum marks for a pass are 50 per cent. of the marks in the subjects for each examination.

#### DEGREE OF BACHELOR OF COMMERCE

Provision has been made in the Regulations for the Degree of Bachelor of Commerce (B.Com.), but no College has been affiliated to, or recognized by, this University to impart instruction in the course.

#### TITLES AND DEGREES IN MUSIC IN THE FACULTY OF FINE ARTS

*Sangita Siromani Title & Bachelor of Music (B.Mus.)  
Degree*

*Sangita Siromani Title.*—The course will extend over four academic years and the subjects of study and the scheme of examination will be as follows:—

*Preliminary:* General—Theory of Indian Music (including History of Indian Music and prescribed text-books on Indian Music) (2 papers), Telugu (1 paper), one of the languages out of—Sanskrit, Tamil, Kannada and Malayalam (1 paper); Special: two practical tests in Vocal, and one practical test in one out of Veena, Violin, Flute, Gottu-Vadya and Nagasvaram.

**Final: General**—History of Indian Music (1 paper), Theory of Indian Music including prescribed text-books (2 papers); **Special**: two practical tests in Vocal, and one practical test in one out of Veena, Violin, Flute, Gottu-Vadya and Nagasvaram.

No candidate will be admitted to the course unless he has passed the Admission Test conducted by the University, which will consist of a practical test in Indian Music and a test, which may be *viva voce*, in a working knowledge of English. Provision has been made for exemption in certain cases.

Candidates will be declared to have passed the Preliminary or Final Examination if they obtain 35 per cent. of the marks in the General Part, 45 per cent. of the marks in the Special Part, and 50 per cent. of the total marks in the Preliminary or Final Examination respectively.

**B.Mus. Degree.**—Candidates seeking admission to this course should have passed the Intermediate Examination of this or some other recognized University with Indian Music as one of the subjects under Part III. The course extends over a period of two years and consists of three parts—Part I: Languages (same as those for Part I of the B.Sc. Degree) (2 papers); Part II: History of Indian Music (1 paper), Theory of Indian Music (including prescribed text-books) (2 papers), and a Special Subject (1 paper); Part III: Two practical tests in Vocal, and one practical test in one out of Veena, Violin, Flute, Gottu-Vadyam and Nagasvaram.

Candidates will be declared to have passed in the three parts of the examination if they obtain not less than 40 per cent. in each of the three parts respectively.

#### TITLES, CERTIFICATES OF PROFICIENCY AND DEGREES IN ORIENTAL LEARNING

1. **Siromani.**—Added to Mimamsa, Vedanta, Nyaya, Vyakarana, Sahitya, Jyotisha or Ayurveda.

2. **Vidvan.**—In the case of candidates who have offered for examinations either (a) Sanskrit and any one of the Dravidian Languages (Tamil, Telugu, Kannada and Malayalam), or Marathi or Oriya, or Hindi, or (b) Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya, or Hindi as the main language with Sanskrit as a subsidiary language, or (c) any two Dravidian Languages: Tamil, Telugu, Kannada, or Malayalam, or (d) Tamil alone.

The course of study in each case extends over a period of four years. Candidates for the Siromani examination have to study and be examined in History of Sanskrit Language and

Literature, and prescribed text-books relating to Sanskrit Literature, Tarka, Mimamsa and Vyakarana, Manthras, Brahmanas, Upanishads, the Grihya and Dharma Sutras and the Smritis. For the Vidvan examination a candidate has to study History of Sanskrit Language and Literature, text-books prescribed for Grammar, Prosody and Poetics and also an Indian Language.

Provision has been made for the following Titles in Arabic, Persian and Urdu:—

*Afzal-ul-Ulama*—(Arabic alone).

*Munshi-i-Fazil*—(Persian and Urdu).

*Adib-i-Fazil*—(Urdu and Persian or Tamil or Malayalam).

*Tabib-i-Kamil*—(Tibb-i-Unani in Persian and Urdu).

*Afzal-ul-Atibba*—(Tibb-i-Unani in Arabic and Urdu).

Provision has also been made for the following two titles:—

*Malpan*—(Syriac alone)

*Soppar*—(Syriac and Hebrew)

All these examinations leading to Titles are divided into two parts: Preliminary and Final. Candidates who obtain not less than 40 per cent. of the total marks in an examination are declared to have passed that examination in the Third Class. Those who get 60 per cent. and above are ranked as First Class, while those who secure 50 per cent. and above are ranked as Second Class.

The University also issues Certificates of Proficiency in Oriental Learning to Oriental Title-holders who pass the prescribed test in any of the subjects for the examination. Candidates must pass the Preliminary Examination for Oriental Titles and after that the course extends over a period of one year. Candidates for certificates are given a wide choice of select subjects from which they have to choose one, though, under conditions, a candidate may appear for the examination in more than one subject.

(5) *Bachelor of Oriental Learning*.—The Degree of Bachelor of Oriental Learning is open to candidates:—

- (a) who are eligible for admission to any one of the courses for the Oriental Title Examination and who in addition have either passed the Matriculation Examination of this University or an examination accepted as equivalent thereto, or shall have secured 35 per cent. of the marks in the Optional English paper in the Sanskrit Entrance Examination of the Government of Madras, or have secured 35 per cent. of the marks in the English part of the Matriculation Examination or an equivalent examination; and

- (b) have passed the Intermediate Examination in Arts and Science of this University with Group D in Part III, or an examination accepted by the Syndicate as equivalent thereto,

provided, however, that such candidates as have passed the preliminary division of the Oriental Title Examination shall be exempted from the courses of studies and the examinations for Part II and Group D of Part III of the Intermediate Examination in Arts and Science; and

- (c) have pursued subsequently a further course of study for a period of not less than three academic years in a Constituent or Affiliated College in the subjects prescribed for the B.O.L. Degree Examination and have passed the examinations for the Degree.

The course shall consist of three parts and comprise instruction in the following subjects and the scheme of examination shall be as follows:—

*Part I—English or a Modern European Language (French or German).*—The examination shall be a written one and the scheme of examination and of marks shall be the same as for Part I for the B.Sc. (Pass) Degree.

*Part II—Optional Subjects.*—The examination shall be a written one and the scheme of examination and of marks shall be the same as for the *Final Division* of the examination for any one of the Oriental Titles.

*Part III—Optional Subjects.*—The examination shall be a written one and the scheme of examination and of marks shall be the same as for *any two* of the subjects prescribed for Certificates of Proficiency in Oriental Learning.

(6) *Master of Oriental Learning.*—Two years after taking the Degree of Bachelor of Oriental Learning a candidate may apply for this Examination. The thesis must be written in English for approval by the Syndicate. The thesis will be referred by the Syndicate to a Board of three Examiners, who may, at their discretion, ask the candidates to submit to an oral examination.

The other conditions are the same as those laid down for the M.Litt. or M.Sc. Degree.

#### DIPLOMA IN ECONOMICS

The course extends over a period of one year for full-time students and over two years for part-time students. The subjects of study and the scheme of examination are as follows:

(1) Economics, (2) Statistical Methods, (3) Recent Economic History and Economic Geography, (4) Rural Economics, (5) Social Economics (including Elements of Social Institutions), (6) A special subject in (4) or (5).

Every candidate should also submit a short thesis based on original enquiry on some problem of limited scope connected with either (4) or (5).

#### DIPLOMA IN POLITICS AND PUBLIC ADMINISTRATION

This course extends over a period of two academic years. The subjects of study are as follows:—

(1) Politics, (2) Public Administration—Principles and Practice, (3) History of Administration in India and the Machinery of the Government of India (Central, Provincial and Local), (4) Economics, (5) Public Finance, (6) One of the following optionals in Law—Law of Contract, Indian Penal Code, Land Tenures, Indian Constitutional Law, (7) One of the following optionals in Commerce—Business Organization, Accounts and Cost Accounting.

The admission to the course is open to persons who have passed the Intermediate Examination and such others as are certified by the Head of the Department to be fit to undergo the course.

#### DIPLOMA IN STATISTICS

The course is a part-time one extending over two academic years or six terms, and is open to candidates who have qualified for a degree in any recognised University.

The subjects for study are: (1) Mathematics, (2) Economics, (3) Statistical Methods, (4) Applied Statistics, (5) and (6) Two of the following subjects—Actuarial Statistics, Economic Statistics, Mathematical Economics and Econometrics, Vital Statistics and Population Problems, Agricultural Statistics (including Design of Experiments).

There will also be a practical examination.

#### DIPLOMA IN CO-OPERATION

The course is a full-time one and extends over one academic year. It is open to persons who have passed the B.A. or B.A. (HONS.) Degree Examination in History or Economics of this University or an equivalent examination, and to persons who, after passing the Intermediate Examination, are engaged in Co-operative service for not less than two years.

The subjects for study are as follows: (i) Economics: (a) Agricultural Organization and (b) Industrial and Commercial Organization. (ii) Co-operation—History and Principles.



(iii) Co-operation—Law and Practice. (iv) Banking—Law and Practice. (v) Accountancy. (vi) Auditing.

There will also be a course of Practical Training and an examination in one of the following subjects: (a) Co-operative Banking; (b) Land Mortgage Banking; (c) Stores; (d) Marketing.

The course for this Diploma has not, however, been started in any institution.

#### DIPLOMAS IN FRENCH AND IN GERMAN

The course extends over a period of nine months—July to March—in the year. For the purpose of entrance to the course no previous acquaintance with the language is necessary and the candidate will be taught on a syllabus and text-books to be prescribed from year to year. No candidates will be admitted to the above courses unless he has passed the examination for Certificates of Proficiency in Oriental Learning or the Matriculation Examination of this University or an examination recognized as equivalent thereto. These are part-time courses primarily intended for those who are desirous of proceeding overseas for higher studies but are also open to other persons approved by the Syndicate. At the end of the course an examination will be held, on the results of which diplomas are awarded.

#### DIPLOMA IN LIBRARIANSHIP

The course in Librarianship extends over a period of one academic year. The course will ordinarily consist of lectures and practical work in:—(1) Bibliography, (2) Book Selection, (3) Library Organization, (4) Library Administration, (5) Classification, (6) Cataloguing, (7) Reference Work. At the end of the course an examination is held and diplomas are issued to successful candidates.

#### DIPLOMA IN GEOGRAPHY

This course extends over a period of nine months in the year. Only graduates are admitted to the course. The subjects of study are: Regional Geography of the World (with special study of Indian and any one of the six continents—the particular continent will be prescribed from time to time) (3 papers); the Physical Basis of Geography including elements of Meteorology, Oceanography and Geomorphology (1 paper); A short course in (1) Historical Geography or (2) Political Geography or (3) Economic Geography or (4) Bio-Geography or (5) Anthro-Geography (1 paper) and on the use of Instruments, Map-making and Map-reading and practical work

(1 paper). Every candidate shall also submit a Dissertation on a selected area in India or his Field Work Records.

The examination is divided into two parts. A candidate shall be declared to have passed the examination if he obtains not less than 35 per cent. of the marks in every paper, and 40 per cent. of the marks in each part.

#### DIPLOMA IN INDIAN MUSIC

This course extends over a period of two academic years. Provision is made for the teaching of theory of Music and practical course in Vocal, Violin and Veena. With certain exceptions only those persons who are eligible for a University course of study are admitted. At the end of the course there will be an examination which will consist of written and practical examinations. Candidates who obtain not less than 35 per cent. of the marks in theory, 45 per cent. of the marks in the practical examination, and 50 per cent. of the marks in the aggregate will be declared to have qualified for the Diploma.

Provision has been made to enable persons for undergoing the course of lectures in one or more subjects for the Diploma in Economics, in Politics and Public Administration, in Statistics, in Geography and in Indian Music.

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# **Mysore University**

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## **Introductory: Character of the University**

The University of Mysore was the first University to be founded in the Indian States. The two State Colleges which had long stood affiliated to the Madras University formed the nucleus of the new University of Mysore. The establishment of the University received the sanction of His Highness the Maharaja of Mysore on the 22nd July 1916.

A regulation amending and consolidating the provisions of the Mysore University Regulation, V of 1916, as amended from time to time, received the assent of His Highness the Maharaja on the 6th day of January 1933, and came into force on the 1st day of July 1933.

The University aims at the unitary type, but there are two University Centres, Mysore and Bangalore, one with two and the other with three Constituent Colleges including a Medical College and an Engineering School.

The University is empowered to affiliate colleges under conditions prescribed in the Statutes and Ordinances.

Besides, there are 6 Intermediate Colleges, 4 for men at Mysore, Bangalore, Tumkur and Shimoga, and two for women, one at Bangalore and the other at Mysore, a Medical School and an Engineering School.

**Chancellor**

His Highness

Maharaja Sri Jaya Chamaraja Wadiyar Bahadur of Mysore.

## **Officers of the University**

**VICE-CHANCELLOR**

Rajakaryapravina Mr. N. S. Subba Rao, M.A. (Cantab.),  
Bar-at-Law.

**REGISTRAR**

Dr. C. S. Pichamuthu, B.Sc., Ph.D. (Glas.), F.R.S.E., F.G.S.

## DEANS

*Faculty of Arts:*

Dr M. H. Krishna, M.A., D.Litt. (Lond.).

*Faculty of Science:*

Dr. A. Subba Rau, B.A., D.Sc. (Lond.), F.R.M.S.

*Faculty of Engineering and Technology:*

Mr. E. K. Ramaswami, B.Sc. (Lond.), A.C.G.I., A.M.I.M.E.,  
M.I.E. (Ind.).

*Faculty of Medicine:*

Miss M. C. Albuquerque, L.R.C.P. (Lond.), M.R.C.S. (Eng.),  
L.M. (Rotunda).

## University Professors and Staff

Note to abbreviations used below :—

<i>C.C.</i>	..	Central College.
<i>M.C.</i>	..	Maharaja's College.
<i>M.W.C.</i>	..	Maharani's Women's College.
<i>E.C.</i>	..	Engineering College.
<i>Med.C.</i>	..	Medical College.
<i>Med.S.</i>	..	Medical School.
<i>Offg.</i>	..	Officiating.
<i>O.O.D.</i>	..	On other duty.
<i>O.L.</i>	..	On leave.
<i>Actg.</i>	..	Acting.
<i>P.T.</i>	..	Part-time.
<i>F.T.</i>	..	Full Time.
<i>O.F.S.</i>	..	On Foreign Service.
<i>Temp.</i>	..	Temporary.
<i>I.C.M.</i>	..	Intermediate College. Mysore.
<i>I.C.B.</i>	..	do. Bangalore.
<i>I.C.T.</i>	..	do. Tumkur.
<i>I.C.S.</i>	..	do. Shimoga.
<i>M.I.C.M.</i>	..	Maharani's Intermediate College, Mysore.

## DEPARTMENT OF ENGLISH

**Professors** .. Messrs. A. B. Mackintosh, M.A. (Oxon.)  
(C.C.) (*Principal*); J. C. Rollo, M.A.  
(Glasgow), J.P. (M.C.) (*Principal*);  
B. M. Srikantia, M.A., B.L. (C.C.);  
W. G. Eagleton, M.A. (Cantab.)  
(M.C.).

**Asst. Professors** .. Messrs. B. S. Kesavan, M.A. (*Actg.*) (M.C.); A. N. Moorti Rao, M.A. (*Actg.*) (I.C.S.); Mrs. B. A. Nichol, B.A. (Hons.) (M.I.C.M.) (*on leave*); Messrs. S. V. Ranganna, M.A. (C.C.); B. Nagesha Rao, M.A. (M.C.); Sri. S. Sundari Ammal, M.A. (Lond.) (M.W.C.); Mr. K. Anantharamiah, M.A. (C.C.).

**Lecturers** .. Twenty-five.

#### DEPARTMENT OF KANNADA

**Hon. Professor** .. Rajasevasakta Mr. B. M. Srikantia, M.A., B.L. (C.C.).  
**Professor** .. Mr. A. R. Krishna Sastri, M.A. (M.C.).  
**Asst. Professor** .. Mr. K. V. Puttappa, M.A. (C.C.).  
**Lecturers** .. Six.  
**Pandits** ... Seven.

#### DEPARTMENT OF SANSKRIT

**Professor** .. Mr. C. R. Narasimhasastri M.A. (M.C.).  
**Asst. Professor** .. Mr. M. Lakshminarasimhaiah, M.A. (M.C.).  
**Lecturers** .. Ten.  
**Pandits** .. Two.

#### DEPARTMENT OF TAMIL

**Pandits** .. Two.

#### DEPARTMENT OF TELUGU

**Pandits** .. Two.

#### DEPARTMENT OF HINDUSTANI AND PERSIAN

**Professor** .. *Vacant* (M.C.).  
**Asst. Professor** .. Mr. H. R. Abdul Majid, M.A. (M.C.) (*Actg.*).  
**Lecturers** .. Seven.  
**Munshis** .. Four.

#### DEPARTMENT OF HISTORY AND ECONOMICS

**Professors** .. Dr. M. H. Krishna, M.A., D.Litt. (Lond.) (*Professor of History*) (M.C.); Mr. V. L. D'Souza, B.A., B.Com. (Lond.) (*Professor of Economics*) (M.C.).

Asst. Professors	..	Mr. H. Krishna Rao, M.A. (M.C.); Dr. M. H. Gopal, M.A., Ph.D. (Lond.) (M.W.C.); Dr. K. N. Venkatasubba Sastri, M.A., Ph.D. (Lond.), F.R.Inst.S. (I.C.B.); Miss L. Cotelingam, M.A., L.T. (M.I.C.M.); Mr. M. N. Prana- tartiharan, M.A., L.T. (M.C.); Dr. R. Balakrishna, M.A. (M.C.); Mr. M. V. Krishna Rao, M.A. (I.C.T.); Miss Da Costa, B.A. (Oxon.) (M.W.C.).
Lecturers	..	Seventeen.

DEPARTMENT OF PHILOSOPHY, PSYCHOLOGY AND LOGIC,

Professor of Philosophy	Mr. A. R. Wadia, B.A. (Hons.) (Cantab.), Bar-at-Law (M.C.).
Professor of Psycho- logy and Logic	Dr. M. V. Gopalaswami, B.A., B.Sc., Ph.D. (Lond.) (M.C.).
Asst. Professor of Logic	Mr. S. Thirumalai, M.A. (I.C.B.).
Asst. Professors of Philosophy	Mr. K. R. Srinivasa Iyengar, M.A. (M.C.); Mr. M. A. Venkata Rao, M.A. (Actg.) (M.W.C.).
Lecturers	.. Eleven.

DEPARTMENT OF EDUCATION

Professor	.. Dr. M. Siddalingaiya, M.A., B.T., Ph.D. (M.C.).
Asst. Professors	.. Messrs. D. S. Gordon, M.A., LL.B., B.T., A.M., Dip.Edn. (M.C.); C. Rangachar, B.Sc., M.Ed. (M.C.).
Lecturer	.. One.

DEPARTMENT OF PHYSICS

Professor	.. Messrs. A. Venkata Rao Telang, M.A. F.Inst.P. (C.C.); (One <i>Vacant</i> ); C. K. Sundarachar, M.A. (Actg.) (C.C.).
Asst. Professors	.. Messrs. C. K. Sundarachar, M.A. (O.O.D.) (C.C. and E.C.); P. Sriniva- sa Rao, M.Sc. (C.C.); Dr. L. Sibaiya, D.Sc., F.A.Sc. (C.C.); T. S. Subbaraya, M.Sc. (C.C.); Dr. S. Ramaswami, B.Sc., Ph.D. (Lond.); N. Parameswaran, M.A. (I.C.M. also Superintendent, I.C.M.).
Lecturers	.. Twenty-four.

## DEPARTMENT OF CHEMISTRY

- Professors** .. Dr. B. Sanjiva Rao, M.A., Ph.D. (Lond.) (C.C.); Dr. B. L. Manjunath, B.A., M.Sc. (Lond.), D.Phil. (Oxon.) (C.C.); Dr. C. Srikantia, B.A., D.Sc. (Med.C.).
- Asst. Professors** .. Messrs. H. Ramaswami Iyengar, M.Sc. (I.C.S. also Superintendent I.C.S.); M. Sessa Iyengar, M.A. (C.C. and Superintendent I.C.B.); H. Subba Jois, M.Sc. (C.C. and Med.S.); N. Venkatanarasimhachar, M.Sc. (I.C.M.).
- Lecturers** .. Thirty-three.

## DEPARTMENT OF MATHEMATICS AND STATISTICS

- Professors** .. Messrs. K. S. K. Iyengar, B.A. (Hons.) (Cantab.) (C.C.); K. B. Madhava, M.A., F.R.A.S., A.I.A. (Lond.) (M.C.); Dr. C. N. Srinivasiengar, D.Sc. (E.C.); Mr. B. S. Madhava Rao, M.Sc. (C.C.).
- Asst. Professors** .. Messrs. M. Narayana Iyengar, M.A. (M.C.); A. A. Krishnaswamy Iyengar, M.A., L.T. (M.C.); M. Venkatarama Iyer, M.A., L.T. (C.C.); P. H. Nagappa, M.Sc. (Lond.) (C.C.) (*on deputation*); K. Venkatachalaingar, (*Actg.*); R. R. Krishna Rao, M.A. (*Actg.*) (I.C.T.).
- Lecturers** .. Twenty-five.

## DEPARTMENT OF GEOLOGY

- Professor** .. Mr. L. Rama Rao, M.A., F.G.S. (C.C.).
- Asst. Professor** .. Mr. P. R. Jagapathy Naidu, M.Sc. (C.C.).
- Lecturers** .. Ten.

## DEPARTMENT OF BOTANY

- Professor** .. Dr. M. A. Sampathkumaran, M.A., Ph.D., S.M. (Chicago) (C.C.).
- Asst. Professor** .. Messrs. L. Narayana Rao, M.Sc. (C.C.) (*on deputation*); C. V. Krishna Iyengar, M.Sc. (I.C.M.); K. N. Seshagiri Aiyar, M.Sc. (*Actg.*) (C.C.).
- Lecturers** .. Fourteen.

## DEPARTMENT OF ZOOLOGY

Professor	..	Dr. A. Subba Rau, B.A., D.Sc. (Lond.), F.R.M.S. (C.C.).
Asst. Professors	..	Dr. B. Tirumalachar, M.Sc., Ph.D. (Lond.), F.Z.S. (I.C.T. also Superin- tendent I.C.T.); Dr. B. R. Seshachar, D.Sc. (C.C.); Dr. L. S. Ramaswamy, D.Sc. (I.C.M.).
Lecturers	..	Twelve.

## DEPARTMENT OF ENGINEERING (CIVIL)

Professor	..	Mr. K. D. Joshi, M.A., B.E., M.I.E., (Ind.), M.R.San.I. (Eng.), A.M.I. struct.E. (Eng.) (E.C.).
Asst. Professors	..	Messrs. K. S. Chakravarthy, B.E. (E.C.); C. Gopalakrishnan, B.Sc., B.E., A.M.I.E. (E.C.).
Lecturers	..	Two.

## DEPARTMENT OF ENGINEERING (MECHANICAL)

Professor	..	<i>Vacant.</i> Mr. E. K. Ramaswami, B.Sc. (Lond.), A.C.G.I., M.A.S.Me., A.M.I.M.E. (Lond.), M.I.E. (India) and Principal (E.C.).
Asst. Professors	..	Messrs. K. N. G. Dhwanjan, B.E. (E.C.); S. Muthuswamy, B.A., B.E., A.M.I.E., (India), ASSOC.M.A.S.M.E. (E.C.); B. V. Patankar, B.A., B.E.
Lecturer	..	One.

## DEPARTMENT OF ENGINEERING (ELECTRICAL)

Professor	..	Mr. J. P. Das, B.A., M.Sc., A.M.I.E.E., ch.E.E., M.I.E. (India) (E.C.).
Asst. Professor	..	Mr. K. Chennabasaviah, B.E., E.E. (E.C.).
Lecturers	..	Two.

## DRAWING

Instructors	..	Two (E.C.).
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## DEPARTMENT OF MEDICINE

Principals	..	Dr. J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S. (Edin.) (Med.C); Miss M. C. Albuquerque, L.R.C.P., M.R.C.S., L.M. (Med.S.).
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- Surgery** .. *Professor*: Dr. J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S. (Edin.) (P.T.) (Med. C.); Dr. S. C. Misra, L.R.C.P., F.R.C.S. (Eng.), Professor of Clinical Surgery; Mr. T. D. Venkatakrishnan, M.B.B.S., F.R.C.S. (Eng.) (P.T.).  
*Asst. Professor*: Vacant.  
*Demonstrator*: One (F.T.).
- Physiology** .. *Professor*: Mr. S. Hirianniah, B.A., M.B.B.S. (Actg.) (Med.C.).  
*Asst. Professor*: Vacant (Med.C.).  
*Lecturers*: Two.  
*Demonstrator*: One.
- Anatomy** .. *Professor*: Dr. Y. Appaji, B.A., M.B.B.S., M.Sc. (Lond.) (Actg.).  
*Lecturers*: Two.
- Pathology** .. *Professor*: Mr. V. R. Naidu, M.B.B.S., M.S., M.R.C.P. (Lond.).  
*Lecturer*: One.  
*Demonstrator*: One (F.T.).
- Medicine** .. *Professor*: Dr. R. E. Heilig, M.D. (P.T.).  
*Asst. Professor*: B. K. Ramakrishna Rao, B.Sc., M.B.B.S., M.R.C.P. (Lond.) (P.T.).  
*Demonstrators*: Two (F.T.).
- Midwifery** .. *Professor*: Dr. (Miss) K. S. Captain, M.B.B.S. (Lond.), D.T.M. & H. (Eng.), L.M. (Dub.).  
*Asst. Professor*: One (P.T.) Vacant. (Gynæcology)  
*Lecturer*: One (P.T.).  
*Demonstrator*: One (P.T.).
- Ophthalmology** .. *Professor*: Dr. A. M. Ponnambalam, B.A., L.M.S., M.R.C.P., D.O.M.S. (P.T.) (Med.C.).  
*Asst. Professor*: Mr. M. B. Sundara Rao, M.B.B.S., I.O.M.S. (P.T.).  
*Demonstrator*: One (F.T.).
- Pharmacology and Materia Medica** *Asst. Professor*: Dr. G. S. Raghunath Rao, B.Sc., M.B.B.S., D.Phil. (in charge of the Department).  
*Demonstrator*: One (F.T.).

Forensic Medicine ..	<i>Professor: Dr. A. C. Tevary, B.A., L.M.S., L.R.C.P. &amp; S. (Edin.), L.R.F.P.S. (Glas- gow), D.M.R.E. (Cantab.).</i>
Organic and Bio- Chemistry	<i>Demonstrator: One.</i>
Chemistry ..	<i>Demonstrator: One.</i>
Biology ..	<i>Demonstrator: One.</i>
Hygiene ..	<i>Lecturer: One (P.T.). Demonstrator: One.</i>
Mental Diseases ..	<i>Lecturers: Two (P.T.).</i>
Dental Surgery ..	<i>Lecturers: Two (P.T.).</i>
Oto-rhino-laryngology	<i>Lecturers: Two (P.T.).</i>
Vaccination ..	<i>Lecturers: Two (P.T.).</i>
Anæsthetics ..	<i>Lecturer: One (P.T.).</i>
Infectious Diseases	<i>Lecturers: Two (P.T.).</i>
Tuberculosis ..	<i>Lecturers: Two (P.T.).</i>
Venereology ..	<i>Lecturer: One (P.T.).</i>
Malariology ..	<i>Lecturer: One (P.T.).</i>
X-ray and Radium Therapy	<i>Lecturer: One.</i>

### Constitution of the University

H. H. The Maharaja of Mysore is the Chancellor of the University.

The officers and authorities of the University are:—

1. The Vice-Chancellor.
2. The Registrar.
3. The Senate.
4. The University Council.
5. The Academic Council.
6. The Faculties and their Deans.
7. Such other officers and authorities as may be provided for by the Statutes.

The Vice-Chancellor who is a full-time officer is the *ex-officio* Chairman of the Senate and the University and Academic Councils. He is also the principal executive officer and the academic officer of the Senate and of the Councils. The executive government of the University is vested with the University Council which consists of 15 members. The Senate with a maximum strength of 75 members is in entire charge of the general organization of the University and its administration

including the institution and conferment of degrees. The Academic Council is the Academic authority of the University and is responsible for the maintenance of the standard of teaching and examination in the University. The University at present includes the Faculties of Arts, Science, Engineering and Technology and Medicine.

### Number of Students in the University under the Different Faculties

The following were the number of students under the respective facilities in the year 1940-41:—

Name of Institution	Arts	Science	Engineering	Medicine	
Maharaja's College (Arts) ..	498	..	..	..	..
Maharani's College (Arts and Science), Bangalore ..	251	..	..	..	..
Central College (Science) ..	..	591	..	..	..
Engineering College ..	..	..	266	..	..
Medical College ..	..	..	..	148	..
Medical School, Bangalore ..	..	..	..	209	..
Intermediate College, Mysore (Arts and Science) ..	..	..	..	..	834
Intermediate College, Bangalore (Arts and Science) ..	..	..	..	..	1,228
Intermediate College for Women, Mysore (Arts and Science) ..	..	..	..	..	76
Intermediate College, Tumkur ..	..	..	..	..	152
Intermediate College, Shimoga ..	..	..	..	..	114
Engineering School, Bangalore ..	..	..	..	..	318
Central College, Bangalore (Commerce) ..	..	..	..	..	114

### Number of Successful Candidates in the Different Examinations

The following are the number of successful candidates at the various examinations held in the year 1940-41:—

Name of Examination		Number Examined	Number Passed
Intermediate ..	..	.. 1,680	677
B.A. Degree ( <i>Old Rules</i> )			
All Parts ..	..	.. —	—
Part I only ..	..	.. 1	1
Part II only ..	..	.. —	—
Part III only ..	..	.. —	—
Parts I and III ..	..	.. 1	—

<i>Name of Examination</i>	<i>Number Examined</i>	<i>Number Passed</i>
<b>B.A. Degree (<i>New Rules</i>)</b>		
All Parts .. ..	163	84
Part I only .. ..	12	9
Part II only .. ..	9	9
Part III only .. ..	39	22
Parts I and II .. ..	2	1
Parts II and III .. ..	2	—
Parts I and III .. ..	10	5
<b>B.A. (HONS.)—<i>Preliminary</i></b>		
All Parts .. ..	42	31
Part I only .. ..	—	—
Part II only .. ..	2	2
Part III only .. ..	2	2
Parts I and III .. ..	1	—
<b>B.A. (HONS.)—<i>Final</i></b>	32	30
<b>B.Sc. Degree</b>		
All Parts .. ..	211	108
Part I only .. ..	10	9
Part II only .. ..	6	6
Part III only .. ..	36	26
Parts I and II .. ..	1	1
Parts II and III .. ..	2	—
Parts I and III .. ..	9	5
<b>B.Sc. (HONS.)—<i>Preliminary</i></b>		
All Parts .. ..	49	44
Part I only .. ..	—	—
Part II only .. ..	1	—
Part III only .. ..	1	1
<b>B.Sc. (HONS.)—<i>Final</i></b>	35	34
<b>M.A. Degree (<i>Qualifying Test</i>)</b>	2	2
<b>M.Sc. Degree (<i>Qualifying Test</i>)</b>	2	2
<b>M.A. Degree</b>		
<b>M.Sc. Degree</b>		
<b>B.T. Degree</b>	48	38
<b>First Examination in Engineering</b>	100	76
<b>Second Examination in Engineering</b>	130	85
<b>B.E. Degree</b>	62	48

*September 1940—*

<b>First L.M.P. Examination</b> .. ..	17	15
<b>Second L.M.P. Examination</b> .. ..	25	14
<b>Third L.M.P. Examination</b> .. ..	31	16
<b>Final L.M.P. Examination</b> .. ..	44	21

<i>Name of Examination</i>	<i>Number Examined</i>	<i>Number Passed</i>
<b>March 1941—</b>		
First L.M.P. Examination .. ..	32	22
Second L.M.P. Examination .. ..	38	16
Third L.M.P. Examination .. ..	36	17
Final L.M.P. Examination .. ..	44	28
Diploma in Engineering ( <i>Old Rules</i> ) ..	59	49
Do. ( <i>New Rules</i> ) ..	72	42
<b>M.B.B.S. (December 1940)—</b>		
Pre-Medical Examination .. ..	29	20
First M.B.B.S. Examination .. ..	30	17
Second M.B.B.S. Examination		
Part I .. ..	20	15
Part II .. ..	16	12
Part III .. ..	12	5
Final M.B.B.S. Examination .. ..	29	10

### Scholarships and Medals

The University has received a large number of endowments ranging from Rs. 30,000 to Rs. 300 for the award of medals, prizes and scholarships. The total amount of endowments at present stands at about Rs. 4,30,000.

Besides the above, a large number of scholarships including Merit Scholarships, Backward Class Scholarships and Depressed Class Scholarships and Free-studentships are awarded.

The number of these special scholarships during 1940–41 was:

Merit .. ..	74
Backward Class .. ..	215
Depressed Class .. ..	67

Women students are free. 62 of them were awarded special scholarships.

### Library, Museums, Laboratories, etc.

*The University Library* [Librarian: Dr. A. N. Narasimhia, M.A., L.T., Ph.D. (Lond.)] consists of 29,612 volumes as on 30th June 1936. The Library is open to members of the Senate of the University and other bodies, members of the Staff of the Constituent and Intermediate Colleges, Registered Graduates, students studying for the M.A. and B.A. (Hons.) Degrees and undergraduates who have obtained the permission of the Principal of their college to borrow books from the University Library.

*Oriental Library* (Curator: Mr. M. S. Basavalingayya, M.A., B.L.). The Library contains a collection of very valuable old manuscripts and the results of the research carried on by the Library are published from time to time. By special permission, books can be borrowed by graduates and undergraduates studying in the University. Total number of books is 16,473. Manuscripts, 10,722.

*Archæological Department* [Director: Dr. M. H. Krishna, M.A., D.Litt. (Lond.), Professor of History, Mysore University]. The object of the Department is to carry out an archæological survey in the Mysore State for the purpose of discovering and studying ancient inscriptions, monuments, coins, historical sites and manuscripts. It publishes the texts of the inscriptions with translation and commentary as well as descriptive notes on monuments, ancient sites, coins and manuscripts found during the year in its Annual Reports, volumes of the *Epigraphia Carnatica* and their supplements and special monographs. An Archæological Museum was started in 1924 for the benefit of research scholars and students of the Mysore University. In 1928 the Department commenced the first of a series of excavations at the ancient Chandravalli site near Chitaldrug. The Department is managed for the Mysore Government by the University of Mysore.

*College Libraries.*—Besides the above libraries, each Constituent and Intermediate College has its own library for the use of the students.

The Central College, Bangalore, has one of the best equipped laboratories in India.

### Scheme of Fellowships

A scheme of Fellowships has been introduced. The Fellowships shall be awarded to persons who have given evidence of capacity to do research work; junior members on the staff of the University will also be eligible for selection.

The value of each Fellowship shall be Rs. 100 and may be increased to an amount not exceeding Rs. 150, if found necessary, in the case of junior members of the staff selected.

### Publication and Extension Work

There is an Extension Lectures Committee which arranges an annual programme. During each year a number of lectures are delivered in different parts of the State.

The following lectures were delivered during the year 1940-41:—

Title of the Lecture	Lecturer	Place	Language
1. Literary Ideals .. .. .	Dr. Amaranatha Jha	Mysore	English
2. A. E. Housman .. .. .	do.	do.	do.
3. A Talk on the Bratachari Movement .. .. .	Mr. G. S. Dutt	do.	do.
4. Unit Processes of Dyestuff Manufacture .. .. .	Dr. K. Venkataraman	Bangalore	do.
5. The Training of a Chemical Engineer .. .. .	do.	Mysore	do.
6. The Appreciation of Design .. .. .	Miss M. Warwicker	Tumkur and Hassan	do.
7. Mulim Contributions to Learning and Culture .. .. .	Dr. S. Hadi Hasan	Bangalore	do.
8. Hindu Contributions to Learning and Culture .. .. .	do.	Mysore	do.
9. Persian Mysticism .. .. .	do.	do.	do.
10. Was Mysore ever under the Sea .. .. .	Dr. C. S. Pichamuthu	Bangalore	do.
11. Race and Culture in India .. .. .	Mr. N. Kasturi	K.G.F.	do.
12. Mysteries of the Upper Air .. .. .	Mr. C. Seshachar	K.G.F.	do.
13. Our Indo-Iranian Heritage .. .. .	Dr. M. N. Dhalla	Mysore and K.G.F.	do.
14. Inside the Atom .. .. .	Dr. L. Sibaiya	Mysore	do.
15. Surface Films .. .. .	Dr. K. S. Gururaja Doss	Bangalore	do.
16. The Atomic Solar System .. .. .	Dr. T. S. Subbaraya	Mysore	do.
17. A Revised Chapter in Indian Geology .. .. .	Mr. L. Rama Rao	Bangalore	do.
18. The Waning Influence of Democracy .. .. .	Mr. A. R. Wadia	do.	do.
19. Democracy as a Creed .. .. .	do.	Mysore and Shimoga	do.
20. Excavation in Mysore .. .. .	Dr. M. H. Krishna	Bangalore and Tumkur	do.
21. Recent Investigations on the Food Value of Rice .. .. .	Dr. B. Sanjiva Rao	Mysore, Bangalore and K.G.F.	do.
22. Recent Discoveries of Fossil Algae in India .. .. .	Mr. K. Sripada Rao	Chikmagalur and Davangere	do.
23. Chromosomes .. .. .	Dr. B. R. Seshachar	Bangalore	do.
24. Morphology of the Amphibian Head .. .. .	Dr. L. S. Ramaswamy	do.	do.

Title of the Lecture	Lecturer	Place	Language
1. Janna's Yasodhara Charite ..	Mr. T. N. Srikantaiya	Tumkur and Malvalli	Kannada
2. Malaria ..	Mr. B. Anantaswami Rao	Chamarajnagar, Tirthahalli and Holenarsipur	do.
3. Sahitya and Sakshatkara ..	Mr. K. V. Puttappa	Doddaballapur	do.
4. Geography and our need of it ..	Mr. D. Narasimhan	Chikballapur, Kolar and Mandya	do.
5. Social Conscience ..	Mr. M. A. Venkatarao	Shimoga	Kannada
6. The Role of Mysore Forests in the Development of Mysore Industries ..	Dr. M. N. Ramaswamy	Tumkur	do.
7. Some Salient Features of Forestry in Mysore ..	do.	Doddaballapur	do.
8. The Kannada Country and Its Language ..	Mr. A. R. Krishnaswamy	Chamarajnagar and Melkote	do.
9. Literature and Truth ..	Mr. A. N. Murty Rao	Naniangud, Chitaldrug and Shimoga	do.
10. Nurserv Schools ..	Sri. B. Indiramma	Closepet	do.
11. The Need for Adult Education ..	do.	Doddaballapur	do.
12. Physiology of Blood ..	Mr. D. Shannanna	Tiptur and Closepet	do.



The University encourages the publication of original works, particularly in Kannada. The Kannada Publication Committee arranges for the publication of monographs in Kannada in such subjects as Science, History, Geography, Philosophy, Literature, Political Economy, Education and Fine Arts so that teachers and others who know Kannada only may be able to continue their studies in the various branches of modern learning.

The Standing Committee for publications other than Kannada considers the question of publications other than Kannada.

An English-Kannada Dictionary is under preparation by an Editorial Board with *Rajasevasakta* Mr. B. Venkatanaranappa, M.A., as Chairman and Chief Editor and the following as members:—

1. *Rajasevasakta* Mr. B. M. Srikantia.
2. Mr. A. R. Krishnasastry.
3. Mr. C. K. Venkataramayya.
4. Mr. D. V. Gundappa.
5. Mr. B. Puttaiya.
6. Mr. D. C. Subbarayappa.

The Dictionary is issued in parts of which six have already been issued. It is expected that the work will be completed by 1942.

So far, 39,000 Vocables have been rendered and the first four parts have been issued.

The Second Volume of the University Handbook of Kannada consisting of parts 4 and 5 is in the press.

The University Journal which was suspended has been revived since 1940-41 and is being issued in four parts (Arts, Science, Engineering & Technology, and Medicine).

Besides the Abstract of studies the University has arrangements for issuing on behalf of each teaching department, a bulletin embodying the results of research or investigation carried on by its members. Each bulletin will be issued on the responsibility of the head of the department concerned. The issue will not necessarily be annual but after matter is received.

### Associations in the University

The University has established Unions, one in each centre, which serve the purpose of well-equipped clubs with library, reading room, games and refreshment rooms. Membership of the Union is compulsory for all students. These Unions are modelled on the famous Unions of Oxford and Cambridge. Addresses are given during the year by public men, and debates on the Parliamentary model take place. Each of the constituent

and intermediate colleges has also other associations interesting themselves in special branches of knowledge and lectures and debates are held regularly each year.

### Cost of Residence

The average monthly charges for a boarder in the University Hostels are as under:—

	Rs.	A.	P.	
(1) Maharaja's College Hostel, Mysore	17	0	0	(including all charges).
(2) Central College Hostel, Bangalore	19	0	0	„
(3) Engineering College Hostel, Bangalore ..	..	23	0	0
(4) Medical College Hostel, Mysore ..	14	0	0	„

### Budget: Provident Fund

The employees of the University are subject to the State pension benefits.

A provident fund has been instituted for the benefit of the employees who are not in pensionable service.

The University is entirely supported by the Government of His Highness the Maharaja of Mysore. The State grant for the year 1937-38 was Rs. 10,00,000 besides a special grant for new buildings amounting to Rs. 70,416. The grant for ordinary expenditure for 1938-39 is Rs. 10,30,000 besides a special grant of Rs. 50,000 for buildings.

### Women's Education

Mysorean women students in the Arts and Science Colleges are now charged half the rate of fees for tuition. Mysorean women students in the Medical College and the Medical School are exempted from payment of tuition fee until the end of 1946-47.

Until recently, women's education was free in the University. There are two institutions exclusively for women, the Maharani's College in Bangalore, teaching up to the Bachelor's degree course in Arts and Science, and the Maharani's Intermediate College in Mysore, having Intermediate Courses in Arts and Science.

Women students for the Honours degree in Arts and for the B.T. Degree are admitted in the Maharaja's College and those for a Degree in Science, Pass or Honours, are admitted into the Central College.

Women students for the M.B.B.S. Degree are admitted into the Medical College.

### Students' Information Bureau and its Activities

The Registrar of the University is the Secretary.

The work of the Bureau consists mainly in collecting information about courses of study in England and answering enquiries.

### Provision for Safeguarding Health, Medical Inspection. Discipline, etc.

Every student in the University is medically examined in alternate years during his stay in the University. The examination is carried out by a Medical Officer who submits a report of the results of his inspection to the University. "Repeat" examinations in special cases are undertaken at intervals at the request of the College authorities. The results of the medical examinations are reported in individual forms and kept in the custody of the Medical Officer and the Principal.

### Degrees and Diplomas

The University offers the Bachelor's Degree in Arts and Science, the Honours Degree in Arts and Science, the Master's Degree in Arts and Science, the B.E. Degree in Engineering (Civil, Mechanical and Electrical), the M.B.B.S. Degree in Medicine and Surgery and the Degree of Bachelor of Teaching in Education. Sanction has been accorded to the Institutes of the following post-secondaries:—

#### *Diploma Courses:*

Diploma in Medical Practice	..	..	L.M.P.
Do. Agriculture	..	..	L.Ag.
Do. Sericulture	..	..	L.S.
Do. Veterinary Science	..	..	L.V.Sc.
Do. Engineering (Civil)	..	..	L.E. (Civil)
Do. do. (Mechanical)	..	..	L.E. (Mech.)
Do. do. (Electrical)	..	..	L.E. (Elec.)
Do. do. (Automobile)	..	..	L.E. (Auto.)
Do. Teaching	..	..	L.Ed.
Do. Commerce	..	..	L.Com.
Do. Prints and Engraving	..	..	L.P.E.
Do. Printing and Binding	..	..	L.P.B.
Do. Pharmacy	..	..	L.Ph.
Do. Music	..	..	L.Mus.
Do. Home Science	..	..	L.H.Sc.
Do. Painting and Drawing	..	..	L.P.D.

*Honorary Degrees of Doctor of Letters, Doctor of Science and Doctor of Laws (D.Litt., D.Sc. and LL.D.).*—Where at a meeting of the Academic Council not less than eight members recommended that an Honorary Degree be conferred on any person on the ground that he is, in their opinion, by reason of eminent position and attainments, a fit and proper person to receive such a Degree, and where their recommendation is supported by the Council and accepted by not less than two-thirds of the members present at a meeting of the Senate and is confirmed by the Chancellor, the Senate shall confer the Honorary Degree on such person, provided that in case of urgency the Chancellor may act on the recommendation of the Council only.

### Admission

Students who have passed the Mysore S.S.L.C. examination satisfying the differential minima rules and those who have passed the Matriculation examination of an Indian University or other examination recognized by the University Council as equivalent thereto and satisfy the University Council regarding their fitness for admission are eligible for admission to the Intermediate course.

Admission to a course of study for a Bachelor's Degree in Arts or Science is granted only to those who have passed the Intermediate examination of this University or of any other Indian University subject in the latter case to the approval of the University Council in cases in which specific recognition has not been agreed to.

Admission to a course of study for the B.T. Degree is granted only to those who have taken the Bachelor's Degree in Arts, Commerce or Science in this or any other Indian University.

Admission to the course of study for the B.E. Degree is granted only to those who have passed the Intermediate Examination in Science of this University or an examination of this or any other University accepted by the University Council as equivalent thereto or graduates in Arts or Science who have passed with Physics, Chemistry and Mathematics as optional subjects, or graduates with Honours having Mathematics and Physics for their optional subjects.

Admission to the course of study for the M.B.B.S. Degree is granted only to those who have passed the pre-medical examination of this University.

Admission to the Pre-Medical Course is granted only to those who have passed the Intermediate Examination in Science of this University with not fewer than two of the subjects—

Physics, Chemistry, Botany and Zoology or to graduates of this University who have passed with one or more of the above subjects or those possessing equivalent qualifications of other Universities accepted by the Council.

Provision has been made for the admission to the M.B.B.S. Degree Course of L.M.P. Diploma holders. They will be eligible for admission to the Final Examination in three years and a half after admission.

Admission to a course of study for the Master's Degree in Arts or Science is regulated as follows:—

A graduate of this University with honours shall pursue a course of studies in his major subject for one academical year from the date of his passing the Bachelor's degree examination at the end of which he will be permitted to present himself for the Master's degree examination in that subject.

Candidates for the Mysore S.S.L.C. Examination who have been declared eligible for college courses of study or those who have passed any other examination accepted by the University Council as equivalent thereto shall be eligible for admission to the L.M.P. diploma course.

## Courses of Study and Examinations

### INTERMEDIATE IN ARTS AND INTERMEDIATE IN SCIENCE EXAMINATIONS

#### *Courses of Study.*

(a) *Intermediate Examination in Arts.*—The course of study for the Intermediate Examination in Arts shall extend over a period of two years in the following subjects, and the examination shall be held according to the following scheme:—

1. *English* .. .. . 3 papers.

- (i) Poetry and Drama.
- (ii) Prose—Detailed and Non-detailed.
- (iii) English Grammar

2. *Second Language.*—One of the following languages:—

#### (a) *Indian Languages.*—

Kannada, Urdu, Tamil, Telugu .. 2 papers.

- (i) Composition based on non-detailed text-books and translation from English to Second Language. Common to I.A. and I.Sc.
- (ii) Text-books for Detailed Study and Grammar.

#### (b) *Classical and Western Languages.*—

Sanskrit, Persian, Arabic, French and Latin.

- (i) Texts, Grammar and Translation. Common to I.A. and I.Sc.  
 (ii) Text-books and Grammar. I.A. only.
3. *Optional Subjects.*—Three of the following:—  
 A selected language, History, Logic, Economics,  
 Geography, Mathematics, Physics, Chemistry,  
 Biology each                      ..                      ..                      .. 2 papers.

*Provided that—*

- (i) Either Logic or Mathematics must be taken;  
 (ii) A candidate taking Physics must take Mathematics;  
 (iii) Not more than one of the last three subjects may be offered;  
 (iv) The same language cannot be taken under both 2 and 3.
- The selected language shall be selected from Old and Middle Kannada, Modern Kannada, Tamil, Telugu, Urdu, French, German, Sanskrit, Pali and Prakrit, Arabic or Persian (Old and Modern).

The following shall be the scheme regarding the corresponding language or languages for each selected language in the Intermediate in Arts list:—

Selected Language in the I.A. Scheme				Corresponding Language in the S.S.L.C. Scheme
Old and Middle Kannada, Modern Kannada				Kannada
Tamil	..	..	..	Tamil
Telugu	..	..	..	Telugu
Urdu	..	..	..	Urdu
Sanskrit	..	..	..	Sanskrit
Persian	..	..	..	Persian
Arabic	..	..	..	Arabic
Hindi	..	..	..	Hindi or Sanskrit

(b) *Intermediate Examination in Science.*—The course of study for the Intermediate Examination in Science shall extend over a period of two years in the following subjects and the examination shall be held according to the following scheme:—

1. *English.*—Same as for the Intermediate Examination in Arts.
2. *Second Language.*—One of the following:—

Kannada, Urdu, Tamil, Telugu, French, Sanskrit, Persian, Arabic, Latin.

The course shall consist of the non-detailed study of prescribed texts.

The Examination shall comprise: one paper on composition based on texts prescribed for non-detailed study

and translation from English to Second Language—common to I.A. and I.Sc.

Or

Texts, Grammar and Translation. Common to I.A. and I.Sc. in the case of Classical and Western languages.

3. *Elementary Mathematics*.—The course is given in the first year class to those who do not take for the optional subjects a group containing Mathematics. The examination shall comprise one paper to be given in the promotion examination at the end of the first year and shall be common to all the Intermediate Colleges.

4. *Optional Subjects*.—One of the following groups:—

- (i) Physics, Chemistry, Mathematics.
- (ii) Physics, Mathematics, Geology.
- (iii) Botany, Zoology, Chemistry.
- (iv) Botany, Geology, Chemistry.
- (v) Geology, Zoology, Chemistry.
- (vi) Botany, Zoology, Geology.
- (vii) Physics, Mathematics, Economics.
- (viii) Economics, Geology, Chemistry.
- (ix) Economics, Geology, Geography.
- (x) Mathematics, Economics, Geography.
- (xi) Economics, Geography, Chemistry.
- (xii) Geology, Geography, Chemistry.

The examination shall comprise two papers in each division of the group.

#### *Minima for Pass.*

The following minima have been prescribed for a pass in the Intermediate in Arts and the Intermediate in Science Examinations:—

(i) The Intermediate Examination in Arts and the Intermediate Examination in Science shall be held in two parts: Part I comprising English and the Second Language; Part II comprising the optional subjects selected.

(ii) Candidates for the Intermediate Examination shall present themselves for examination in both the parts except as provided hereinafter.

(iii) No candidate shall be declared to have passed the Intermediate Examination in Arts or the Intermediate Examination in Science unless he obtains not less than 35 per cent. of the total number of marks in English, 35 per cent. in the second language and 35 per cent. in the whole group of optional subjects, and also not less than 30 per cent. in each of the subjects of the optional group.

(iv) Candidates, failing to secure the above minima, but obtaining not less than 40 per cent. of the total maximum marks in either part, as well as the requisite minimum in each division of that part, will be permitted to appear for the other part at a subsequent examination held within two years of passing in the former part.

(v) A candidate who thus presents himself for examination in only one part shall be declared to have passed in that part also, if he obtains not less than 40 per cent. of the total maximum marks in the part, as well as the requisite minimum in each division of the part.

The results of the examination shall be declared in three classes as follows:—

First Class .. Those who obtain not less than 60 per cent, of the aggregate marks in both the parts taken together.

Second Class .. Those who obtain less than 60 per cent. but not less than 50 per cent.

Third Class .. Other successful candidates.

The names of the candidates who pass in the first and second classes shall be arranged in order of merit, and the names of those who pass in the third class shall be arranged in alphabetical order.

Candidates who present themselves for examination in Part I only or in Part II only and are declared to have passed shall not be classed.

### B.A. DEGREE EXAMINATION

#### *Courses of Study.*

The course of study leading to the degree of Bachelor of Arts shall extend over two years after the Intermediate Examination, and shall comprise English, a Second Language and three of the following subjects: English, Philosophy, a Classical Language, a Vernacular, Politics, Economics, Sociology, History, Education, Mathematics, Geography, Biology, Physics, Chemistry, Botany, Zoology,—which shall be taken in combinations approved by the Academic Council, from time to time.

Provided that not more than one of the last five subjects may be offered in any combination except when English is one of the optional subjects in the combination, in which case two may be offered.

The examination shall consist of two papers in English Composition, one paper in Second Language Composition and Translation from English to Second Language, or Translation in



respect of Classical Languages and three papers in each of the three selected subjects.

The papers on English Composition shall be based on the non-detailed study of prescribed text-books.

The paper on Second Language Composition or Translation shall be based on prescribed text-books.

The Second Language shall be selected from Kannada, Urdu, Tamil, Telugu and French for Composition, and Sanskrit, Persian, Arabic and Latin for Translation.

#### *Compartments.*

The results of the B.A. Degree Examination shall be declared in three compartments:—

- (1) Compulsory English.
- (2) Second Language.
- (3) Optionals.

Provided that candidates for the B.A. Degree Examination present themselves for the complete examination when appearing for the first time.

#### *Minima for Pass.*

- |                    |  |  |
|--------------------|--|--|
| (1) First Class    | .. ..  | 60 per cent.<br>(in each compartment). |
| (2) Second Class   | .. ..  | 50 per cent.<br>(in each compartment). |
| (3) Third Class:—  |  |  |
| Compulsory English | .. ..  | 35 per cent.                           |
| Second Language    | .. ..  | 35 per cent.                           |
| Optional Subjects  | 35 per cent. in each group and<br>40 per cent. on the aggregate. |  |

**NOTE.**—A candidate is exempted from sitting for an examination in any group of his optional subjects, provided he has obtained not less than 60 per cent. of the maximum for that subject in an examination for the B.Sc. Degree held within two years previous to the date of the examination.

### B.A. (HONS.) DEGREE EXAMINATION

#### *Courses of Study.*

The course of study leading to the degree of Bachelor of Arts (Hons.) shall extend over three years after the Intermediate Examination in Arts, and shall comprise English, a Second Language and one of the following as the major subject with a suitable minor subject and in the case of Mathematics one or more special subjects:—

English, Kannada, Sanskrit, Persian, Arabic, Urdu, Philosophy, History, Politics, Economics, Mathematics.

The examination shall consist of two papers in English Composition, one paper on Second Language Composition and Translation from English to Second Language or Translation in respect of Classical Languages, eight papers in the major subject, and four papers in the minor subject.

Provided that in the case of Mathematics there shall be seven papers in the major subject, three papers in the minor subject and two papers on the special subjects, and that in the case of Sanskrit there shall be nine papers in the major subject and three papers in the minor subject.

The papers on English Composition shall be based on the non-detailed study or prescribed text-books.

The paper on Second Language Composition or Translation shall be based on prescribed text-books.

The Second Language shall be selected from Kannada, Urdu, Tamil, Telugu and French for Composition and Sanskrit, Persian, Arabic and Latin for Translation.

#### *Scheme of Examination.*

The B.A. (HONS.) Degree Examination shall be taken in two parts:—

(a) The Preliminary Examination at the end of the second year comprising the following:—

- (1) English Composition.
- (2) Second Language Composition or Translation.
- (3) Optional Subjects—
  - (i) Arts other than Sanskrit and Mathematics—Minor Subjects: Four papers.
  - (ii) Mathematics and Sanskrit—Minor Subjects: Three papers.

(b) The Final Examination at the end of the third year consisting of the remaining subjects.

#### *Minima for Pass and Publication of Results.*

The classification in the B.A. (HONS.) Examination shall be determined on the results of the Final Examination only a pass being declared in the Preliminary Examination.

The minimum marks required for a pass in the Preliminary Examination shall be as follows:—

1. Compulsory English	..	..	35 per cent.
2. Second Language	..	..	35 ..
3. Minor Subject	..	..	35 ..

The results of the Honours Examinations shall be declared in three classes as follows:—

1. First class—not less than 60 per cent. of the total.
2. Second class—not less than 50 per cent. of the total.
3. Third class—not less than 40 per cent. of the total.

Provided that no candidate shall be declared to have passed in Mathematics unless he shall have obtained not less than 35 per cent. of the aggregate marks in each group.\* Candidates failing to obtain the requisite minimum for an Honours Degree but obtaining not less than 35 per cent. of the aggregate marks in the Final Examination and passing in the Preliminary Examination may, at the discretion of the Board of Examiners in the Major subject, be recommended for the Pass Degree.

A candidate for the Honours Degree shall not appear for either the Preliminary or the Final Examination later than five academic years after admission to the First Year Honours class; nor shall he be permitted to undergo the complete Final Examination for Honours more than once.

Those who fail at the Preliminary Examination in the Honours course will be allowed to proceed to the Final Year's course and permitted to take along with the Final Examination such part or parts of the Preliminary Examination as they may have failed in. Until such candidate passes in the Preliminary Examination, his results in the Final Examination shall not be declared.

### B.Sc. DEGREE EXAMINATION

#### *Courses of Study.*

The courses of study leading to the degree of Bachelor of Science shall extend over two years after the Intermediate Examination, and shall comprise English Composition, a Second Language and one of the following groups:—

- (i) Mathematics, Physics, Chemistry.
- (ii) Botany, Zoology, Geology.
- (iii) Botany, Zoology, Chemistry.
- (iv) Physics, Mathematics, Geology.
- (v) Chemistry, Geology, Botany.
- (vi) Chemistry, Geology, Zoology.
- (vii) General Physiology, Chemistry, Zoology or Botany.
- (viii) Economics, Geology, Chemistry.
- (ix) Physics, Mathematics, Economics.
- (x) Experimental Psychology, Mathematical Statistics, Child Psychology and Educational Psychology.
- (xi)
  1. Mathematics.
  2. Mathematical Statistics and Mathematical Economics.

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\* Group A—Compulsory Subjects. Group B—Special Subjects.

## 3. One of the following:—

- (a) Economics.
- (b) Sociology.
- (c) Psychology (General and Experimental).
- (xii) Economics, Geography, Geology.
- (xiii) Mathematics, Economics, Geography.
- (xiv) Geography, Economics, Chemistry.
- (xv) Geography, Geology, Chemistry.
- (xvi) Mathematics, Statistics, Geography.
- (xvii) Mathematics, Sociology, Geography.

There shall be two papers in English Composition, one paper in Second Language Composition and Translation from English to Second Language or Translation in respect of Classical Languages, and three papers in each of the three selected subjects.

The papers on English Composition shall be based on the non-detailed study of prescribed text-books.

The paper on Second Language Composition or Translation shall be based on prescribed text-books.

The Second Language shall be selected from Kannada, Urdu, Tamil, Telugu and French for Composition and Sanskrit, Persian, Arabic and Latin for Translation.

*Compartments.*

The results of the B.Sc. Degree Examination shall be declared in three compartments:—

- (1) Compulsory English.
- (2) Second Language.
- (3) Optional Subjects.

Provided that candidates for the B.Sc. Degree Examination present themselves for the complete examination when appearing for the first time.

*Minima for Pass.*

- |                    |              |                   |                   |                        |
|--------------------|--------------|-------------------|-------------------|------------------------|
| (1) First Class    | ..           | ..                | ..                | 60 per cent.           |
|                    |              |                   |                   | (in each compartment). |
| (2) Second Class   | ..           | ..                | ..                | 50 per cent.           |
|                    |              |                   |                   | (in each compartment). |
| (3) Third Class—   |              |                   |                   |                        |
| Compulsory English | ..           | ..                | ..                | 35 per cent.           |
| Second Language    | ..           | ..                | ..                | 35 per cent.           |
| Optional Subjects: | 35 per cent. | in each group and |                   |                        |
|                    |              | 40 per cent.      | on the aggregate. |                        |

NOTE.—A candidate is exempted from sitting for an examination in any group of his optional subjects, provided he has obtained not less than 60 per cent. of the maximum for that subject in an examination for the B.Sc. Degree held within two years previous to the date of the examination.

## B.SC. (HONS.) DEGREE EXAMINATION

*Courses of Study.*

The course of study leading to the degree of Bachelor of Science (Honours) shall extend over three years after the Intermediate Examination in Science, and shall comprise one of the following optional groups of subjects consisting of a major subject (with one or more special subjects) and a minor subject together with English and a Second Language:—

- (1) Mathematics (major) with two out of a prescribed list of special subjects and Physics as minor subject.
- (2) Physics (major) including Mathematical Physics and Chemical Physics with Mathematics as minor subject.
- (3) Chemistry (major) including Plant Chemistry or Colloid and Capillary Chemistry with Physics as minor subject.
- (4) Geology (major) with Zoology or Botany or Chemistry as minor subject.
- (5) Zoology (major) with Botany or Geology or Chemistry as minor subjects.
- (6) Botany (major) with Zoology or Geology or Chemistry as minor subjects.
- (7) Experimental Psychology (major) with Child Psychology, Educational Psychology and Mathematical Statistics as minor subject.
- (8) Economics (major) with Advanced Statistics, Mathematical Economics and Social Measurements as minor subject.

The course of study in the First Year class shall, in groups 1 to 6, include in addition a course in German, which shall comprise elements of grammar and exercise in translation.

The examination shall consist of one paper in English Composition, one paper in Second Language Composition and Translation from English to Second Language or Translation in respect of Classical Languages and twelve papers in the optional subjects.

The paper on English Composition shall be based on the non-detailed study of prescribed text-books.

The paper on Second Language Composition or Translation shall be based on prescribed text-books.

The Second Language shall be selected from Kannada, Urdu, Tamil, Telugu and French for Composition and Sanskrit, Persian, Arabic and Latin for Translation.

*Scheme of Examination.*

The B.Sc. (HONS.) Degree Examination shall be taken in two parts:—

(a) The Preliminary Examination at the end of the second year comprising the following:—

- (1) English Composition.
- (2) Second Language Composition or Translation.
- (3) Minor Subjects:—
  - (i) Sciences—Three papers.
  - (ii) Economics (B.Sc.)—Four papers.
  - (iii) Experimental Psychology (B.Sc.)—Four papers.
  - (iv) Mathematics—Three papers.

(b) The Final Examination at the end of the third year consisting of the remaining subjects.

No candidate shall be admitted to the Final Examination for the B.Sc. (HONS.) Degree in groups 1 to 6 *supra* unless he is certified by the college authorities to have satisfied them in a test in translating simple scientific passages in German.

*Minima for Pass and Publication of Results.*

The classification in the B.Sc. (HONS.) Examination shall be determined on the results of the Final Examination (Major and Subsidiary subjects), only a pass being declared in the Preliminary Examination.

The minimum marks required for a pass in the Preliminary Examination shall be as follows:—

1. Compulsory English	..	..	35 per cent.
2. Second Language	..	..	35 „
3. Minor Subject ..	..	..	35 „

The results of the Honours Examinations shall be declared in three classes, as follows:—

1. First Class—not less than 60 per cent. of the total.
2. Second Class—not less than 50 per cent. of the total.
3. Third Class—not less than 40 per cent. of the total.

Provided that no candidate shall be declared to have passed unless he shall have obtained not less than 35 per cent. of the aggregate marks in each group.\*

Candidates failing to obtain the requisite minimum for an Honours Degree, but obtaining not less than 35 per cent. of the

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\* Mathematics, Group A—Compulsory Subjects.  
                   Group B—Special Subjects.  
 Science Subjects, Group A—Theory.  
                           Group B—Practice.

aggregate marks in the Final Examination and passing in the Preliminary Examination may, at the discretion of the Board of Examiners in the Major Subject, be recommended for the Pass Degree.

A candidate for the Honours degree shall not appear for either the Preliminary or the Final Examination later than five academic years after admission to the First Year Honours class nor shall a candidate be permitted to undergo the complete Final Examination for Honours more than once.

Those who fail at the Preliminary Examination in the Honours course will be allowed to proceed to the Final Year's course and permitted to take along with the Final Examination such part or parts of the Preliminary Examination as they may have failed in; until such candidate passes in the Preliminary Examination, his results in the Final Examination shall not be declared.

### MASTER'S DEGREE EXAMINATION

#### *Courses of Study.*

(a) A candidate for the degree of Master of Arts will be examined in *one* of the following subjects:—

English.	History.
Kannada.	Economics.
Sanskrit.	Philosophy.
Urdu.	Mathematics.
Persian.	

(b) A candidate for the degree of Master of Science will be examined in *one* of the following subjects:—

Mathematics.	Zoology.
Physics.	Geology.
Chemistry.	Psychology.
Botany.	Economics.

#### *Scheme of Examination.*

The examination for the Master's Degree shall consist of four papers and a *viva voce* examination, or a thesis and a *viva voce* examination.

The written papers and the *viva voce* shall carry a maximum of 100 marks each, and the thesis shall carry a maximum of 400 marks.

No candidate shall be declared to have passed the Master's Degree examination unless he shall have obtained not less than 40 per cent. of the marks in the thesis when a thesis is offered, 40 per cent. of the marks in the aggregate of the written papers, 40 per cent. of the marks in the *viva voce* examination,

and 50 per cent. of the aggregate marks for the whole examination. Successful candidates who obtain 60 per cent. of the total marks shall be placed in the first class in order of merit, and the other successful candidates in the second class in alphabetical order.

## Professional Courses of Study and Degrees

### ENGINEERING

#### *Courses of Study.*

*Bachelor of Engineering (B.E.).*—The course extends over four years followed by a year of practical training. The first year will be a common course to all the Branches of Engineering.

#### *First Year*

##### *Common Course*

(Civil, Mechanical, Electrical and Chemical Engineering)

*Common course.*—(1) Mathematics (Algebra, Trigonometry, Analytical Geometry and Elements of Differential and Integral Calculus, (2) Engineering Physics—Theory and Practice, (3) Engineering Chemistry—Theory and Practice, (4) Economics, (5) Building Materials, (6) Metallurgy and Elementary Mechanical Engineering, (7) Freehand, Model and Geometrical Drawing, (8) Surveying—Theory and Practice, (9) Workshop—Practice.

#### *Second Year*

(i) *Civil.*—(1) Mathematics, (2) Applied Mechanics, (3) Hydraulics, (4) Mechanical Engineering, (5) Electrical Engineering, (6) Machine Drawing, (7) Geology: Theory and Practice, (8) Workshop: Theory and Practice, (9) Applied Mechanics Laboratory, (10) Mechanical Laboratory, (11) Electrical Laboratory, (12) Survey Practice.

(ii) *Mechanical.*—(1) Mathematics, (2) Applied Mechanics, (3) Hydraulics, (4) Civil Engineering, (5) Electrical Technology, (6) Machine Drawing, (7) Building Drawing, (8) Machine Design, (9) Applied Mechanics Laboratory, (10) Workshop: Theory and Practice, (11) Surveying: Theory and Practice.

(iii) *Electrical.*—(1) Mathematics, (2) Applied Mechanics, (3) Hydraulics, (4) Civil Engineering, (5) Electrical Technology, (6) Machine Drawing, (7) Building Drawing, (8) Machine Design, (9) Applied Mechanics Laboratory, (10) Workshop: Theory and Practice, (11) Surveying: Theory and Practice.



(iv) *Chemical Engineering*.—Pure Mathematics\* (same as for Civil, Mechanical and Electrical), (2) Applied Mechanics\* (same as for Civil, Mechanical and Electrical), (3) Hydraulics\* (same as for Civil, Mechanical and Electrical), (4) Theory and Design of Machine Parts as for Mechanical and Electrical,\* (5) Civil Engineering as for Mechanical and Electrical,\* (6) Electrical Technology as for Mechanical and Electrical,\* (7) Machine Drawing, (8) Workshop and Laboratory.\*

### *Third Year*

(i) *Civil*.—(1) Mathematics, (2) Applied Mechanics and Graphic Statics, (3) Building Construction, (4) Architecture, (5) Building Drawing and Estimating, (6) Irrigation, (7) Sanitary Engineering, (8) Surveying: Theory and Practice.

(ii) *Mechanical*.—(1) Mathematics, (2) Applied Mechanics and Graphic Statics, (3) Theory of Direct Current Machinery, (4) Heat Engines, (5) Workshop Theory, (6) Machine Design, (7) Machine Drawing, (8) Workshop Practice, (9) Mechanical Laboratory, (10) Electrical Laboratory and Drawing.

(iii) *Electrical*.—(1) Mathematics, (2) Applied Mechanics and Graphic Statics, (3) Heat Engines, (4) Theory of Direct Current Machinery, (5) Hydraulic Machinery, (6) Machine Drawing, (7) Electrical Drawing, (8) Workshop: Theory and Practice, (9) Mechanical Laboratory, (10) Electrical Laboratory.

(iv) *Chemical Engineering*.—(1) Applied Mechanics, Graphic Statics\* (same as for Civil, Mechanical and Electrical), (2) Applied Thermodynamics,\* (3) D.C. Machines as for Mechanical and Electrical,\* (4) Machine Drawing,\* (5) Advanced Chemistry,\* (6) Organic Chemistry,\* (7) Electrical Laboratory,\* (8) Mechanical Laboratory,\* (9) Chemical Laboratory.

### *Fourth Year*

(i) *Civil*.—(1) Irrigation and Irrigation Drawing, (2) Railways, Tunnels and Harbours, (3) Roads and Bridges, and Bridge Drawing, (4) Water Supply and Sanitary Engineering, (5) Structural Design and Drawing, (6) Testing of Materials Laboratory, (7) Hydraulics Laboratory, (8) Estimating, Specification and Engineering Economics, (9) Surveying—Theory and Practice.

(ii) *Mechanical*.—(1) Heat Engines, (2) Hydraulic Engineering, (3) Power Plant Engineering and Drawing, (4) Mechanical Laboratory, (5) Workshop—Practice, (6) Theory and Design of Machines, (7) Estimating, Specification and engineering Economics, (8) Machine Drawing, (9) Theory of

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\* Examination in these subjects.

Alternating Current Machinery, (10) Electrical Laboratory, (11) Structural Design.

(iii) *Electrical*.—(1) Theory of Alternating Current Machinery, (2) Generation and Hydro-Electric Engineering, (3) Transmission and Distribution, (4) Electrical Machine Design, Estimating, Specifications and Engineering Economics, (5) Traction and Utilisation, (6) Structural Design, (7) Mechanical Laboratory, (8) Electrical Laboratory, (9) Electrical Drawing.

(iv) *Chemical Engineering*.—(1) Hydraulic Machinery as for Mechanical with special reference to pumping plant,\* (2) Structural Design (same as for Mechanical and Electrical),\* (3) Mechanical Laboratory,\* (4) Applied Organic Chemistry,\* (5) Chemical Engineering,\* (6) Chemical Engineering Laboratory,\* (7) Construction and Design of Chemical Plants,\* (8) Economics of Chemical Industry,\* (9) Treatment of materials, grinding, evaporate,\* etc.

NOTE.—Instruction in Photography and Physical Culture will be given as part of the course.

### *Examinations.*

Candidates shall be required to pass four examinations, *viz.*, the First Examination in Engineering at the end of the first year, the Second Examination in Engineering at the end of the second year, the Third Examination in Engineering at the end of the third year, and the Final Examination for the B.E. Degree at the end of the fourth year.

No candidate shall be permitted to appear for the First Examination in Engineering after having failed three times in the examination.

NOTE.—A candidate not successful in the Second Examination in Engineering under the old scheme in 1941 or in any preceding year, shall be required in any subsequent year to appear for the Second and Third Examinations in Engineering under the new scheme, subject to the conditions of Ordinance 54 regarding break of continuity.

No candidate shall be declared to have passed any of the above examinations unless he obtains not less than 30 per cent. of the marks in each paper of the written examination, 30 per cent. of the marks in each oral or practical examination, 40 per cent. of the marks in each group and 50 per cent. of the total marks in the examination.

Successful candidates who obtain not less than 70 per cent. of the total marks shall be placed in the first class and their names shall be published in order of merit; the names of the other successful candidates shall be published in alphabetical order in the second class.

\* Examination in these subjects.

A candidate for any of the examinations failing to obtain the prescribed minimum in only one paper but obtaining all the other requisite minima (including 50 per cent. in the aggregate), may be permitted to appear again for the examination in that paper only and that he be declared to have passed in the examination provided he obtains not less than 40 per cent. of the marks in that paper at the subsequent appearance.

A candidate for the First, Second or Third Examination in Engineering who fails in only one paper and is permitted under the preceding clause to appear only in that paper at a subsequent examination may be allowed to proceed to the second, third or fourth year class as the case may be, and take the examination in the paper failed in along with the Second or Third or Final Examination. His result in the Second, Third or Final Examination shall be declared only after he passes in the First, Second or Third Examination as the case may be.

### MEDICINE

*The Pre-Medical Course.*—The Pre-Medical Course extends over a period of six months, the subjects of study being Physics, Chemistry, Botany and Zoology.

#### *Examination.*

There shall be a Pre-Medical Examination at the end of the course. The examination shall comprise a written paper, a practical examination and a *viva voce* examination in each subject of study.

Candidates for the examination shall be required to produce certificates of (i) having undergone the prescribed course of study for six months in the Medical College in the subjects in which they appear, (ii) being not less than 18 years of age on the 1st January following the examination.

No candidate shall be permitted to appear for the Pre-Medical Examination after having failed twice in the examination.

No candidate shall be declared to have passed the examination unless he obtains in each subject not less than 35 per cent. of the marks in the written examination and 35 per cent. of the marks in the practical and the *viva voce* examination taken together and 50 per cent. of the aggregate marks in the examination.

Successful candidates who obtain not less than 70 per cent. of the maximum marks shall be placed in the first class and their names shall be published in order of merit. The names of the other successful candidates shall be published in alphabetical order in the second class.

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY  
(M.B.B.S.)

*Course of Study.*

The course extends over five years.

Candidates for the degree shall be required to attend courses of study in the following subjects:—

*First Year*

*Anatomy (including Embryology).*—One course of lectures in Osteology and Dissection.

*Physiology (including Practical Physiology and Bio-Chemistry).*—One course of lectures in Physiology and one course of practical work.

*Organic Chemistry.*—A course of lectures with practical work.

*Second Year*

*Anatomy (including Embryology).*—One course of lectures with practical work.

*Physiology (including Practical Physiology and Bio-Chemistry).*—One course of lectures with practical work and a course of practical work.

*Organic Chemistry.*—One course of lectures with practical work.

*Third Year*

*Pathology and Bacteriology (including Immunology).*—One course of lectures with practical work.

*Minor Surgery.*—One course of lectures and practical work.

*Materia Medica and Pharmacology.*—One course of lectures with a practical course of instruction in pharmacy.

*Medicine.*—One course of lectures.

*Surgery.*—One course of lectures.

*Hospital and Clinical Work.*—Post-mortem for three months, out-patient department for three months, surgical wards for three months, medical wards for three months.

*Fourth Year*

*Medicine.*—One course of lectures.

*Surgery and Surgical Pathology.*—One course of lectures.

*Venereal Diseases.*—One course of lectures and practical work.

*Midwifery, Gynæcology and Pædiatrics.*—One course of lectures in midwifery and diseases of women and new-born children.

*Ophthalmology.*—One course of lectures.

*Forensic Medicine.*—One course of lectures.

*Hygiene.*—One course of lectures and one course of practical work.

*Pathology and Bacteriology (including immunology).*—One course of lectures with practical work.

*Hospital and Clinical Work.*—Medical wards for 2½ months, surgical wards for 2½ months, maternity wards for 2 months, ophthalmic wards for 3 months.

### *Fifth Year*

*Operative Surgery.*—One course of practical instruction.

*Midwifery, Gynæcology and Pædiatrics.*—A continuation course in midwifery and diseases of women and new-born children.

*Mental Diseases.*—One course of lectures and demonstrations.

*Hospital and Clinical Work.*—Out-patient department for 3 months, surgical wards for 3 months, medical wards for 3 months, maternity wards for 2 months.

*Vaccination.*—Ten demonstrations.

*Fever Hospital.*—One month.

*Clinical Dental Surgery.*—One course of twelve lectures with necessary demonstrations.

*Anæsthetics.*—Instruction in anæsthetics consisting of attendance at three lectures and the personal administration of anæsthetics in six cases.

*Oto-rhino-laryngology.*—One course of lectures and demonstration.

### *Examinations.*

Candidates shall be required to pass three examinations, namely, the First Examination at the end of the second year of the course, the Second Examination comprising three parts—Part I to be taken at the end of the third year, Parts II and III to be taken at the end of the fourth year, and the Final Examination to be taken at the end of the fifth year, it being permissible (a) for a candidate failing in Part I at the end of the third year to proceed to the fourth year course and appear for Part I again at the end of the fourth year, and (b) for a

candidate failing in Part III of the Second Examination at the end of the fourth year to proceed to the fifth year course and appear for Part III of the Second Examination at the end of the fifth year.

Provided that a candidate who has already passed the Final Examination for the L.M.P. Diploma shall be permitted to appear for the First M.B.B.S. Examination at the end of a course of one academical year after passing the Pre-Medical Examination, the Second M.B.B.S. Examination at the end of a course of one academical year after passing the First M.B.B.S. Examination and the Final Examination at the end of a course of one academical year after passing the Second M.B.B.S. Examination.

No candidate shall be permitted to appear for the First Examination after having failed three times in the examination.

The Final Examination and Part III of the Second Examination shall be held twice a year in December and in June respectively.

#### FIRST EXAMINATION

(a) Candidates for the First Examination shall be required to produce certificates of—

- (i) having passed the Pre-Medical Examination;
- (ii) having subsequent to passing the Pre-Medical Examination undergone an approved course of studies in the Medical College for a period of not less than two years in Anatomy, Physiology, and Organic Chemistry;
- (iii) having undergone a course of dissections extending over not less than 18 months and of having dissected the whole body at least once to the satisfaction of their teachers;
- (iv) having undergone a practical course of Histology for at least three months;
- (v) having undergone an approved course of Practical Physiology including Bio-Chemistry for a period of at least nine months.

(b) Candidates shall be examined in the following subjects:  
*First M.B.B.S. Papers.*

- (i) Anatomy (including Embryology).
- (ii) Physiology (including Practical Physiology and Bio-Chemistry).
- (iii) Organic Chemistry.

*First M.B.B.S. Minima.*

(c) No candidate shall be declared to have passed the examination, unless he obtains not less than 50 per cent. of the marks in the written examination and 50 per cent. in the practical and oral examination together in Anatomy and in Physiology, and 35 per cent. in the written examination and 35 per cent. in the practical and oral examination together in Organic Chemistry, and 50 per cent. in the total for that subject. Successful candidates who obtain 70 per cent. of the total number of marks shall be placed in the first class in order of merit. The other successful candidates shall be placed in the second class in alphabetical order.

\* A candidate who fails in the examination but obtains not less than 55 per cent. of the total maximum marks in any subject and also the minimum in each division of that subject shall be exempted from appearing for the examination in the subject again during the succeeding two years.

Names of successful candidates who have thus been exempted in one or more subjects shall be published in a separate list in alphabetical order.

(d) A candidate who fails in the examination shall, while appearing for the examination again in the subject or subjects in which he has not been exempted, be required to produce evidence of having attended a further course of studies in the second year class for a period of not less than one academical year.

**SECOND EXAMINATION**

(a) Candidates for the Second Examination shall be required to produce certificates of—

- (i) having passed the First M.B.B.S. Examination;
- (ii) having been engaged in medical studies in the Medical College subsequent to passing the First M.B.B.S. Examination as under:—

Pharmacology .. ..	1 year
Pathology including Bacteriology ..	2 years
Hygiene .. ..	1 year
Ophthalmology .. ..	1 year
Forensic Medicine .. ..	1 year
the period being one year in respect of each subject in the case of L.M.P. Diploma holders.	

- (iii) having undergone a course of lectures and demonstration, in Pathology and Bacteriology including Immunology;
- (iv) having undergone a course of Practical Pathology (Chemical and Histological) for three months;

- (v) having undergone a course of lectures and demonstrations in Hygiene;
- (vi) having worked as clinical clerk for three months in the medical wards of the Krishnarajendra Hospital or the Victoria Hospital;
- (vii) having worked as a clinical clerk for three months in the surgical wards of the Krishnarajendra Hospital or the Victoria Hospital.
- (viii) having worked as a clinical clerk for three months in the out-patient department of the Krishnarajendra Hospital or the Victoria Hospital;
- (ix) having acted as clerk for post-mortem examinations for three months and of having learnt the method of post-mortem examination;
- (x) having attended a course of Minor Surgery;
- (xi) having undergone a course of Materia Medica and Pharmacology;
- (xii) having undergone a course of Practical Pharmacy;
- (xiii) having attended a complete course of lectures in Forensic Medicine;
- (xiv) having attended a complete course of lectures in Ophthalmology;
- (xv) having worked as a clinical clerk in the Ophthalmic Department of the Krishnarajendra Hospital or in the Minto Ophthalmic Hospital for a period of three months and of having learnt refraction work and the use of the ophthalmoscope.

(b) The Second Examination shall be held in three parts:

Part I—at the end of the third year comprising Pharmacology.

Part II—at the end of the fourth year comprising Pathology including Bacteriology, and Hygiene.

Part III—at the end of the fourth year comprising Ophthalmology and Forensic Medicine.

Failure in Part I at the end of the third year shall not disqualify for promotion to the fourth year class.

Part III may be taken at the end of the fourth year or the fifth year, provided that failure in the part taken at the end of the fourth year shall not disqualify for promotion to the fifth year class.

Pass in Parts I and II shall be compulsory before proceeding to the fifth year class.

(c) No candidate shall be declared to have passed in Part I unless he obtains not less than 50 per cent. of the aggregate



marks in the subject. Successful candidates who obtain 70 per cent. of the total marks shall be placed in the first class in order of merit and the other successful candidates in the second class in alphabetical order.

No candidate shall be declared to have passed in Part II unless he obtains not less than 50 per cent. of the aggregate marks in each subject. Successful candidates who obtain 70 per cent. of the total marks in the part shall be placed in the first class in order of merit and the other successful candidates in the second class in alphabetical order.

No candidate shall be declared to have passed in Part III of the examination unless he obtains not less than 50 per cent. of the marks in each subject. Successful candidates who obtain 70 per cent. of the total marks shall be placed in the first class in order of merit and the other successful candidates in the second class in alphabetical order.

A candidate who fails in Part II or Part III of the examination but obtains not less than 55 per cent. of the total maximum marks in either subject of the part shall be exempted from appearing for the examination in the subject again during the succeeding two years.

Names of successful candidates who have thus been exempted in a subject of a part shall be published in a separate list in alphabetical order.

(d) A candidate who fails in Part I of the examination shall, while appearing for the examination again, produce evidence of having attended a further course of study for a period of not less than one academic year, except that in respect of a candidate failing in Part I at the end of the third year and appearing for the part at the end of the fourth year together with Part II or Parts II and III, further attendance shall not be compulsory.

A candidate who fails in Part II and has not been exempted from appearing again in Pathology shall be required to produce evidence of having attended a further course of study in Pathology for a period of not less than one academic year, a further course in Hygiene being optional.

A candidate who fails in Part III and has not been exempted from appearing again in Ophthalmology shall be required to produce evidence of having attended a further course of study in Ophthalmology, further attendance in Forensic Medicine being optional, except that in respect of a candidate failing in Part III at the end of the fourth year and appearing for the part at the end of the fifth year together with the Final Examination, further attendance in respect of Part III shall not be compulsory.

## FINAL EXAMINATION

(a) Candidates for the Final Examination shall be required to produce certificates of—

- (i) having passed Parts I and II of the Second M.B.B.S. Examination;
- (ii) having been engaged in medical studies in the Medical College in the subjects of the examination for a period of not less than three years after passing the First M.B.B.S. Examination and not less than one year after passing Parts I and II of the Second M.B.B.S. Examination, and in the case of those who have passed the L.M.P. Diploma Examination for not less than one year after passing the Second M.B.B.S. Examination;
- (iii) having attended a complete course of lectures in Medicine including Therapeutics and Pædiatrics;
- (iv) having attended a complete course of lectures in Surgery,
- (v) having attended a complete course of lectures in Obstetrics and Gynæcology.
- (vi) having worked as a clinical clerk in the medical wards of the Krishnarajendra Hospital or the Victoria Hospital for a period of 5½ months and of having attended lectures and demonstrations in Clinical Medicine during that period;
- (vii) having worked as a clinical clerk in the surgical wards of the Krishnarajendra Hospital or the Victoria Hospital for a period of 5½ months and of having attended lectures and demonstrations in Clinical Surgery during that period.
- (viii) having worked in the out-patient department of the Krishnarajendra Hospital or the Victoria Hospital for 3 months;
- (ix) having worked as a clinical clerk in the wards of the Vani Vilas Hospital or of the Maternity Hospital for a period of four months and of having attended on 5 labours under supervision, of having conducted 15 labours independently and of having attended an ante-natal clinic for 2 months;
- (x) having attended a course of lectures on Oto-rhino-laryngology for 3 months;
- (xi) having attended a practical course of Operative Surgery for 3 months;

- (xii) having attended a course of lectures on Anæsthetics and of having administered anæsthesia in six cases;
  - (xiii) having attended a course of lectures and demonstrations on Mental Diseases;
  - (xiv) having attended a course of ten lectures and demonstrations on Vaccination;
  - (xv) having attended a Fever Hospital for one month;
  - (xvi) having attended a course of lectures with practical instruction for 3 months in Venereal Diseases and having satisfactorily undergone a test in the same.
- (b) Candidates shall be examined in the following subjects:
- (i) Medicine including Therapeutics and Pædiatrics.
  - (ii) Surgery including Venereal Diseases.
  - (iii) Obstetrics and Gynæcology.

(c) No candidate shall be declared to have passed the Final Examination unless he obtains not less than 50 per cent. of the maximum marks in the written examination and not less than 50 per cent. of the maximum marks in the clinical, practical and *viva voce* examinations taken together, in each subject. Successful candidates who obtain not less than 70 per cent. of the total marks in the examination shall be placed in the first class in order of merit and the other successful candidates in the second class in alphabetical order.

A candidate who fails in the examination but obtains not less than 55 per cent. of the total maximum marks in any subject and also the minimum in each division of that subject shall be exempted from appearing for the examination in the subject again during the succeeding two years.

Names of successful candidates who have thus been exempted in one or more subjects shall be published in a separate list in alphabetical order.

(d) A candidate who fails in the examination shall be required at each subsequent appearance to produce evidence of further study in the subject or subjects in which he appears at a subsequent examination.

#### DIPLOMA IN MEDICINE (L.M.P.)

##### *Courses of Study.*

The course extends over four years.

Candidates for the L.M.P. Diploma are required to attend the following courses of study:—

##### *First Year*

*Physics.*—One course of lectures with practical demonstrations.

*Chemistry*.—One course of lectures with practical demonstrations.

*Elements of Biology*.—One course of lectures with practical demonstrations.

*Anatomy*.—One course of lectures and dissections.

*Physiology*.—One course of lectures.

### *Second Year*

*Anatomy*.—One course of lectures with dissections.

*Physiology*.—One course of lectures with demonstrations in Chemical Physiology and Histology.

### *Third Year*

*Medicine*.—One course of lectures.

*Surgery*.—One course of lectures.

*Pathology and Bacteriology*.—One course of lectures with practical work.

*Hygiene*.—One course of lectures.

*Materia Medica*.—One course of lectures and practical Pharmacy.

*Mental Diseases*.—One course of lectures.

*Hospital Work*—

- (a) Clinical clerking in Medical wards of a recognized Hospital for 4 months including post-mortem clerking during the same period.
- (b) Clinical clerking in Surgical wards for 4 months.
- (c) Out-patient hospital practice for 2 months.
- (d) Clinical demonstrations at the Mental Hospital during the short session.
- (e) A course of 5 clinical demonstrations at the Epidemic Diseases Hospital.

### *Final Year*

*Medicine*.—One course of lectures.

*Surgery*.—One course of lectures.

*Venereal Diseases*.—One course of lectures and practical work.

*Operative Surgery, Throat, Nose and Ear Diseases*.—One course of lectures.

*Midwifery*.—One course of lectures.

*Diseases of Women and Children.*—One course of lectures.

*Ophthalmology.*—A course of lectures extending over 4 months.

*Forensic Medicine.*—One course of lectures and practical demonstrations in Toxicology.

*Hospital Work*—

(a) Clinical clerking in the Medical wards of a recognised Hospital for 2 months.

(b) Clinical clerking in the Surgical wards for 2 months.

(c) Out-patient hospital practice for 1 month.

(d) Clinical clerking in the Ophthalmic Hospital for 3 months.

(e) Clinical clerking at the Maternity Hospital for 3 months.

(f) A course of 5 demonstrations in Vaccination.

*Examinations.*

Candidates shall be required to pass four examinations, *viz.*, the First, Second, Third and Final Examinations. These examinations shall be held twice a year in March and September.

No candidate shall be permitted to appear for the First Examination for the L.M.P. Diploma after having failed three times in the examination.

### *First Examination*

Candidates shall be examined in the following subjects:—

- (1) Physics; (2) Chemistry; (3) Elements of Biology.

### *Second Examination*

Candidates shall be examined in the following subjects:—

- (1) Anatomy; (2) Physiology.

### *Third Examination*

Candidates shall be examined in the following subjects:—

- (1) Pathology and Bacteriology; (2) Hygiene; (3) Materia Medica.

### *Fourth or Final Examination*

Candidates shall be examined in the following subjects:—

- (1) Surgery; (2) Medicine; (3) Midwifery; (4) Forensic Medicine.

There will be one paper and a *viva voce* examination in each of the subjects for the L.M.P. Examinations with a Clinical examination added in the case of Medicine and Surgery.

No candidate shall be declared to have passed in any of the above examinations unless he obtains not less than 40 per cent. of marks in each subject.

Those who obtain not less than 70 per cent. of marks in the aggregate shall be placed in the First Class in order of merit and the rest in the Second Class in alphabetical order.

Candidates who fail in the Final Examination but obtain 60 per cent. or more in any subject will be exempted from appearing in that subject at a subsequent examination.

Candidates who fail in the L.M.P. Examinations shall be required to produce evidence of further study in the subjects in which they appear at a subsequent examination, a second course in Physics, Chemistry, Biology, Hygiene and Forensic Medicine being optional.

### TEACHING

*Bachelor of Teaching (B.T.).*—There shall be a course of study for the Degree of B.T. extending over one year. It shall comprise:—

<i>Group A—Theoretical:—</i>				Marks
(i)	Principles .. .. .	..	..	150
(ii)	Educational Psychology including Mental Measurements .. .. .	..	..	150
(iii)	Methods .. .. .	..	..	150
(iv)	Comparative study of educational systems with special reference to problems of Indian Education .. .. .	..	..	150
(v)	School Organization and Management .. .. .	..	..	150
(vi)	Class records in mental and educational measurement .. .. .	..	..	50
TOTAL ..				800
<i>Group B—Practice in Teaching:—</i>				Marks
	Examination .. .. .	..	..	140
	Class Work .. .. .	..	..	60
TOTAL ..				200

The course in respect of "Methods" under Group A and of "Practice in Teaching" under Group B shall comprise:—

(1) The teaching of English (compulsory).

(2) The teaching of one of the following subjects:—

English (optional), History, Geography, Mathematics, Science.

Candidates for the B.T.\* Degree Examination who have passed in Group A (Theoretical) and failed in B (Practice in Teaching) shall be permitted to appear again for Group B (Practice in Teaching).

To pass the B.T. Degree Examination, a candidate must obtain not less than 40 per cent. of the total marks under A and B separately with a minimum of 30 per cent. in each subject. Of passed candidates, those that obtain 60 per cent. or more of the total marks shall be placed in order of merit in the First Class. Those obtaining 50 per cent. or more but less than 60 per cent. in the Second Class likewise in order of merit and the rest in the Third Class in alphabetical order.

### Table of Fees for Courses and Examinations

#### *Tuition Fees*

#### A. Professional Courses—

##### Pre-Medical Course:—

	Rs.
Whole course .. ..	72 for the course
One subject .. ..	25 ..
Two subjects .. ..	45 ..
Three subjects .. ..	60 ..
M.B.B.S. Degree (whole) ..	200 a year (payable in four equal instalments)
M.B.B.S. Degree (for a 6 months' course for the Final M.B.B.S. Examination in respect of a failed candidate.	100 (payable in two equal instalments in Jan. & Mar.)
For a supplementary course ..	30 for each subject
L.M.P. Diploma (whole course) ..	60 for the course
L.M.P. (for a course extending for 6 months or less) .. ..	30
B.E. Degree (whole course) ..	150 per year
Lectures only for students repeating the course .. ..	45 ..
Lectures and Drawing for students repeating the course .. ..	60 ..
B.T. Degree .. ..	80 ..

Provided that in respect of non-Mysorean students admitted to professional courses of studies from the year 1934-35 the following shall be the scale:—

	Rs.
Pre-Medical .. ..	120 for the course
One subject .. ..	40 ..
Two subjects .. ..	75 ..
Three subjects .. ..	100 ..

	Rs.	
M.B.B.S. Degree (whole) ..	300	a year (payable in four equal instalments)
M.B.B.S. Degree, for a 6 months' course for the Final M.B.B.S. Examination in respect of a failed candidate.	150	(payable in two equal instalments in Jan. & Mar.)
For a supplementary course ..	30	for each subject
L.M.P. .. ..	120	per year
For a course* of 6 months or less for failed students .. ..	60	
B.E. .. ..	250	per year
Lectures only for failed students ..	60	"
Lectures and Drawing for failed students .. ..	80	"
B.T. .. ..	120	"
<b>B. Arts and Science Courses—</b>		
(1) (a) Intermediate in Arts (whole)	72 + 8*	per year
Part I .. ..	32	"
Part II .. ..	44 + 8*	"
(b) Intermediate in Science (whole)	88	"
Part I .. ..	32	"
Part II .. ..	60	"
For failed I.Sc. candidates who are admitted for lectures only—		
Whole course .. ..	72	"
Part I .. ..	32	"
Part II .. ..	44	"
(2) B.A. (whole) .. ..	96 + 12*	"
(i) English .. ..	30	"
(ii) Second Language .. ..	20	"
(iii) Optionals .. ..	55 + 12*	"
(3) B.A. (HONS.) (whole) ..	120	"
(i) English .. ..	30	"
(ii) Second Language .. ..	20	"
(iii) Minor Subject .. ..	40	"
(iv) Major Subject (in the 1st or 2nd year class)	60	"
(4) B.Sc. (whole) .. ..	120	"
(i) English .. ..	30	"
(ii) Second Language .. ..	20	"
(iii) Optionals .. ..	80	"

\* For Science Subjects.



			Rs.	
(5)	B.Sc. (Hons.) (whole)	..	144	per year
	(i) English	..	30	"
	(ii) Second Language	..	20	"
	(iii) Minor Subject	..	50	"
	(iv) Major Subject (in the 1st or 2nd year class)		70	"
(6)	M.A.	..	120	"
(7)	M.Sc.	..	144	"

*Fees for Examinations*

			Rs.
(1)	(a) Intermediate in Arts (whole)	..	30
	Part I	..	14
	Part II	..	21
	(b) Intermediate in Science (whole)	..	30
	Part I	..	14
	Part II	..	21
(2)	(a) B.A. (whole)	..	40 + 5*
	(b) Compulsory English	..	10
	(c) Compulsory Second Language	..	6
	(d) Optional Subjects	..	30 + 5*
(3)	(a) B.A. (HONS.) Preliminary	..	20 + 5*
	English	..	10
	Second Language	..	6
	Optional Subject (Minor)	..	10 + 5†
	(b) B.A. (HONS.) Final	..	40 + 10*
(4)	(a) B.Sc. (whole)	..	50
	(b) Compulsory English	..	10
	(c) Compulsory Second Language	..	6
	(d) Optional Subjects	..	40
(5)	(a) B.Sc. (HONS.) Preliminary	..	25
	English	..	10
	Second Language	..	6
	Optional Subject (Minor)	..	15
	(b) B.Sc. (HONS.) Final	..	50
(6)	M.A. Degree	..	100
	M.Sc. Degree	..	100

\* For Science Subjects.

† For a minor group including a Science subject.

			Rs.
(7)	B.T. Degree (whole) ..	..	35
	Group B, Practice in Teaching only ..	..	15
(8)	Pre-Medical Examination—		
	Whole examination ..	..	30
	One subject ..	..	10
	Two subjects ..	..	18
	Three subjects ..	..	25
(9) I.	M.B.B.S. (whole) ..	..	35
	One subject ..	..	15
	Two subjects ..	..	25
II.	M.B.B.S.—		
	Part I: One subject ..	..	15
	Part II: Whole ..	..	25
	One subject ..	..	15
	Part III: Whole ..	..	25
	One subject ..	..	15
(10) (a)	First Exam. in Engineering—		
	Whole ..	..	20
	One subject ..	..	10
(b)	Second Exam. in Engineering—		
	Whole ..	..	20
	One subject ..	..	10
(c)	Third Exam. in Engineering—		
	Whole ..	..	20
	One subject ..	..	10
(d)	Final Exam. for B.E. Degree—		
	Whole ..	..	45
	One subject ..	..	15
(11) (a)	L.M.P. First ..	..	15
(b)	Do. Second ..	..	15
(c)	Do. Third ..	..	15
(d)	Do. Final ..	..	20

# Nagpur University

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## Introductory: Character of the University

The first attempt to establish a University for these Provinces (Central Provinces and Berar) was made in the year 1914, when in the month of July, the Local Government appointed "The Central Provinces and Berar University Committee" to consider the question of the establishment of an independent University. It made its report in January 1915, embodying an elaborate scheme for a residential University with, however, power to affiliate external colleges. The Great War was then on and in view of its absorbing demands on the Administration, the consideration of the subject was put off. On the publication of the Sadler Commission's Report, a Committee was appointed in 1919 to formulate a fresh scheme after taking its recommendations into consideration. It soon submitted its report and action was taken upon it without loss of time. First planned in 1914-15, examined by several committees of educationists, official and non-official, the University scheme at last emerged out of this prolonged gestation in the form of a concrete Bill. It was introduced in the Legislative Council in the August Session of 1922, and passed into law in March, 1923. The University was brought into existence on the 4th August 1923.

Except in the Department of Law, the University is, at present, only an examining body, though the Act makes due provisions for its being made both unitary and affiliating. The Law College is directly maintained by the University. The affiliated institutions include eleven Arts Colleges, a College of Science, an Agricultural College, a Training College, a Law College, a Commerce College and a School of Engineering.

Of the eleven Arts Colleges, three, *viz.*, Morris College, Nagpur; Robertson College, Jabulpore; and King Edward College, Amraoti, are maintained by the Provincial Government. The fourth, Hislop College, Nagpur, is maintained by the United Free Church Mission of Scotland. The remaining seven Colleges, *viz.*, City College, Nagpur; Hitkarni City College, Jabulpore; the Central College for Women, Nagpur; Wasudeo Arts College, Wardha; the Rajkumar College, Raipur; Chhattisgarh College, Raipur; and Sitabai Arts College, Akola, are private institutions.

Morris and Hislop Colleges, Nagpur, are affiliated upto the M.A. standard in Arts. Hislop College, in addition, teaches Science upto the Intermediate standard.

The College of Science is affiliated upto the D.Sc. standard in Physics, Chemistry and Mathematics, upto the M.Sc. standard in Zoology and Botany, and upto the B.Sc. standard in English.

Robertson College at Jubbulpore teaches upto the B.A. and the B.Sc. standards, and also upto the M.A. standard in English and Hindi. There is a commodious hostel attached to it where most of the students live. There are also quarters for members of the staff within the extensive college grounds.

King Edward College, Amraoti, owes its origin to the desire of public-spirited citizens of Berar to perpetuate the memory of His Majesty King Edward VII by a special Berar Memorial in the form of a Collegiate institution to be called after him. The Government, however, later on decided to build the College out of State funds and the subscriptions were utilized to found scholarships for Berar students. The College teaches upto B.A. standard in Arts and upto the B.Sc. standard in Science. It has a fine hostel and quarters for the staff.

The City College, Nagpur, was founded by the Nagpur Shikshana Mandal in 1932. The College was admitted to the privileges of the University with effect from 1st July, 1932, for a period of five years in respect of the courses of instruction in English, Economics, Philosophy, History, Sanskrit, Marathi upto the B.A. standard and in Civics, Mathematics and Hindi Composition upto the Intermediate standard. It is now admitted to the privileges of the University upto 30th June, 1942. For the present a part of the College building has been set apart for use as a hostel. The College has also been permitted to teach Marathi and Political Science upto the M.A. standard.

The Hitkarni City and Law Colleges, Jubbulpore, were founded by the Hitkarni Sabha, Jubbulpore, in the years 1933 and 1934 respectively. The Arts College was admitted to the privileges of the University in July 1933 for a period of five years and teaches upto the B.A. standard in English, History, Philosophy, Mathematics, Economics, Politics, Sanskrit and Hindi. With effect from 1935, arrangements have been made in the College to provide instruction in Persian and Urdu upto the B.A. standard. The Law College is affiliated upto the LL.B. standard.

The Central College for Women, Nagpur, has been admitted, for a period of five years with effect from July 1935, to the

privileges of the University upto the B.A. standard in English, Philosophy, Economics, History, Politics, Marathi, Urdu, Persian and Sanskrit, and upto the Intermediate standard in Geography, Home Science and Music. The institution, which is the first College for women in the Province, is managed by a Governing Body, which includes several distinguished citizens of Nagpur, including Lady Twynam, who is the President.

The Rajkumar College, Raipur, has been admitted with effect from 1st July 1936, to the privileges of the University in respect of the courses of instruction in English, Composition in a Modern Indian Language, Mathematics, History, Geography, Economics, Civics and Public Administration in India, Sanskrit and Hindi upto the Intermediate standard.

Wasudeo Arts College, Wardha, has been admitted to the privileges of the University upto 31st May 1943, in respect of the courses of instruction in English, Philosophy, History, Economics, Political Science, Sanskrit, Marathi and Mathematics upto the B.A. standard.

Spence Training College at Jubbulpore is a training college for teachers and has a large practising school attached to it. It prepares students for the B.T. degree and the Diploma of Teaching of the University.

The College of Agriculture at Nagpur was admitted to the privileges of the University in 1925. The first examination in Intermediate (Agriculture) was held in March 1927, and the first examination for the degree of B.Ac. in 1929. The College is both a teaching and a research institute and has very extensive experimental farms and botanical and horticultural gardens attached to it for practical training.

The Government School of Engineering at Nagpur was admitted to the privileges of the University in respect of the courses of instruction in Civil, Mechanical and Automobile Engineering upto the Diploma standard, with effect from 1st July 1936. The College prepares students for the two examinations for the Diploma in Engineering, *vis.*, the First and Final. The First Examination for the Diploma in Engineering was held for the first time in 1937.

The Govindram Seksaria College of Commerce, Wardha, was admitted to the privileges of the University with effect from 1st July 1940, for a period of five years. The College teaches upto the B.Com. standard.

All Colleges admitted to the privileges of the University are required to comply with the provisions of the College Code Ordinance which has come into force from 1st July 1939.

## Officers and Staff of the University

### CHANCELLOR

His Excellency Sir Henry Twynam, K.C.S.I., C.I.E., I.C.S.

### VICE-CHANCELLOR

Lt.-Col. T. J. Kedar, B.A., LL.B., M.L.A.

### TREASURER

Mr. W. R. Puranik, B.A., LL.B.

### REGISTRAR

Mr. U. Misra, M.A., LL.B.

### ASST. REGISTRAR

Mr. K. R. Pandya, M.A.

### CONSULTING ENGINEER

Rai Bahadur Sunderlal.

### LIBRARIAN

Mr. Y. M. Mulay, M.A.

### DEANS OF THE FACULTIES

Arts	.. Dr. A. C. Sen Gupta, M.A. (Edin.), D.Litt., I.E.S.
Science	.. Rao Sahib S. N. Godbole, M.Sc. (Alld.).
Law	.. Mr. W. R. Puranik, B.A., LL.B. (Alld.).
Education	.. Mr. H. S. Staley, M.A. (Cantab.).
Agriculture	.. Mr. E. A. H. Churchill, B.Sc. (Edin.).

### PRINCIPAL OF THE UNIVERSITY COLLEGE OF LAW

Mr. Y. V. Jakatdar, B.A. (Oxon.), Bar-at-Law.

### DIRECTOR OF PHYSICAL EDUCATION

Mr. L. J. Kokardekar, D.P.E. (Berlin).

### HEADS OF DEPARTMENTS

*(Included in the Faculty of Arts)*

English	.. Rev. T. W. Gardiner, M.A. (Cantab.), O.B.E.
Philosophy	.. Dr. Jwala Prasad, M.A., Ph.D.
History	.. Mr. Hirde Narain, M.A., B.T.

Political Science	..	Mr. A. Sen, M.A., B.L.
Economics	..	Dr. A. C. Sen Gupta, M.A. (Edin.), D.Litt., I.E.S.
Sanskrit, Pali and Prakrit		Mahamahopadhyaya V. V. Mirashi, M.A.
Persian and Arabic		Shams-ul-Ulema M. A. Ghani, M.A., M.Litt. (Cantab.).
European Languages		Mr. F. P. Tostevin, M.A. (Oxon.), O.B.E.
Hindi	..	Dr. B. P. Mishra, M.A., D.Litt., LL.B.
Marathi	..	Mr. S. N. Banhatti, M.A.
Urdu	..	Mr. S. G. Taqi, M.A.
Other Indian Languages		Mr. R. C. Guha, M.A.
Music	..	Mr. G. B. Bapat, M.A.
Geography	..	Mr. A. V. Khare, B.A. LL.B.
Home Science	..	Mrs. Bakulabai Abhyankar, B.A., B.T.
Commerce	..	Mr. B. E. Dadachanji, M.A.

*(Included in the Faculty of Science)*

Chemistry	..	Rao Sahib S. N. Godbole, M.Sc.
Physics	..	Dr. V. N. Thatte, D.Sc. (Nag.).
Mathematics	..	Dr. S. C. Dhar, D.Sc. (Cal. and Edin.).
Zoology	..	Dr. M. A. Moghe, M.A., M.Sc., Ph.D., F.Z.S. (Lond.).
Botany	..	Dr. R. L. Nirula, B.Sc., Ph.D. (Lond.).
Engineering	..	Rao Sahib C. Chatterji.
Technology	..	Dr. R. S. Thakur, D.Sc. (Lond.).

*(Included in the Faculty of Law)*

Law	..	Mr. W. R. Puranik, B.A., LL.B.
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*(Included in the Faculty of Education)*

Education	..	Mr. H. S. Staley, M.A. (Cantab.).
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*(Included in the Faculty of Agriculture)*

Agriculture	..	Mr. E. A. H. Churchill, B.Sc. (Edin.).
Botany and Plant Pathology		Mr. J. F. Dastur, M.Sc., D.I.C.
Chemistry	..	Rao Bahadur, D. V. Bal, M.Sc. (Agr.), L.Ag., A.I.C., F.C.S. (Lond.).

# COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

Morris College, Nagpur	<i>Principal:</i> Dr. A. C. Sen Gupta, M.A. D.Litt., I.E.S.
Hislop College, Nagpur	<i>Principal:</i> Mr. D. G. Moses, M.A. (Mad. and Columbia).
College of Science, Nagpur	<i>Principal:</i> Dr. K. Krishnamurti, D.Sc. (Lond.).
Robertson College, Jubbulpore	<i>Principal:</i> Mr. Hirde Narain, M.A., B.T.
King Edward College, Amraoti	<i>Principal:</i> Mr. N. Ganguli, M.A.
Spence Training College, Jubbulpore	<i>Principal:</i> Mr. L. G. D'Silva, B.A., M.B.E.
College of Agriculture, Nagpur	<i>Principal:</i> Mr. E. A. H. Churchill, B.Sc. (Edin.).
City College, Nagpur	<i>Principal:</i> Mr. S. L. Pandriapande, M.A.
Hitkarni City College, Jubbulpore	<i>Principal:</i> Mr. B. V. Degwekar, M.A., M.Sc., LL.B.
Hitkarni Law College, Jubbulpore	<i>Principal:</i> Mr. H. D. Palit, B.A., LL.B.
Central College for Women, Nagpur	<i>Principal:</i> Miss K. S. Ranga Rao, B.A. (Hons.) (Lond.), M.A., L.T., F.R.G.S. (Lond.).
Rajkumar College, Raipur.	<i>Principal:</i> Mr. T. L. H. Smith-Pearse, M.A. (Oxon.).
Government School of Engineering, Nagpur	<i>Principal:</i> Rai Sahib C. Chatterji.
Wasudeo Arts Col- lege, Wardha	<i>Principal:</i> Dr. D. G. Londhe, M.A., ph.D. (Leipzig).
Chhattisgarh College, Raipur	<i>Principal:</i> Mr. J. Yoganandam, M.A., LL.B.
Sitabai Arts College, Akola	<i>Principal:</i> Mr. G. D. Joshi, M.A., LL.B.
Govindram Sekoaria College of Com- merce, Wardha	<i>Principal:</i> Mr. Sriman Narayan Agar- wal, M.A.



### Constitution of the University

The Court is the supreme governing body and has general powers to revise the acts of the Executive and Academic Councils. It consists, among others, of all members of the Executive and Academic Councils, five members of the Provincial Legislative Assembly elected by the non-official members of that Council, the Director of Public Instruction, thirty members elected by the Registered Graduates of the University, representatives elected by the Teachers of each of the connected Colleges (two from each), ten persons nominated by the Chancellor, two Headmasters of High Schools nominated by the Chancellor, one Inspector of Schools and one Inspectress of Schools nominated by the Chancellor. Besides these, every association or individual making a donation of not less than Rs. 10,000 and every association or individual making an annual contribution of Rs. 5,000 to the funds of the University, for a purpose approved by the Executive Council, is entitled to nominate one member to the Court. The Court makes all the statutes on the recommendation of the Executive Council and elects the Vice-Chancellor and the Treasurer from among the persons recommended by the Executive Council.

The Executive Council is the chief executive body and exercises control over the funds of the University, administers and applies them to purposes permissible under the Act. Subject to certain limitations, it makes the ordinances and after report by a Special Examination Committee, publishes the examination results. The Executive Council consists of the Vice-Chancellor, the Treasurer, the Deans of the Faculties, five members elected by the Court, not more than four members elected by the Academic Council, three members nominated by the Local Government, and the member of Provincial Legislative Assembly representing the Registered Graduates' Constituency.

The Academic Council is the chief academic body. It constitutes Faculties and Departments of Study, prepares syllabuses and recommends ordinances embodying the conditions of admission to examinations and degrees of the University. It also appoints a General Examination Committee for recommending examiners for appointment to the Executive Council. It also constitutes a Special Examination Committee for checking the results as tabulated and Subject Examination Committees for moderating question papers.

At present there are the following Faculties: Arts, Science, Law, Education and Agriculture.

The Faculties recommended to the Academic Council on the recommendation of the Boards of Studies the syllabuses for the subjects included in them respectively. No ordinances relating

to courses of study, standards of examination and other matters relevant to the academic side of the University are made by the Executive Council unless the opinion of the Faculty concerned has been obtained thereon. The Faculties constitute Boards of Studies for subjects included within their scope. These prepare the courses of study. They also submit to the Faculties their opinion on other technical matters relating to the subjects within their respective jurisdiction.

The University has also a statutory Finance Committee which has generally the power to examine receipts and expenditure, to allocate funds and to sanction expenditure. As the work of the University increased, certain other committees have been appointed by regulations. Among these are the Law College Committee, the Library Committee, the Students' Information Bureau, the Examinations Recognition Committee and the Sports Committee.

The University has an elaborate set of rules for the appointment of examiners, the conduct of examinations and the preparation of examination results. Stated briefly, the Boards of Studies recommended persons suitable to be appointed examiners in their respective subjects to the Faculties concerned. The lists are considered by each Faculty and submitted to the Academic Council, the latter body passing it on to the General Examination Committee. The General Examination Committee selects persons to be appointed examiners by the Executive Council, with which the power of appointment finally rests. The statutes and ordinances contemplate two kinds of examiners; Internal, who are teachers in the University or in the connected Colleges, and External, who are not so connected. The External Examiners are appointed in November but the Internal Examiners are appointed about the middle of February, after the lectures to the classes preparing for examinations have concluded. The Subject Examination Committees meet eight or ten days before the examination commences and the question papers are then moderated. Every examiner makes as many copies of each paper as there are centres of examination (one for M.A. and M.Sc., three for B.A. and B.Sc., and Intermediate) and then a copy is sent to each Superintendent of Examinations to be typed and duplicated or printed in the morning immediately before the commencement of examination each day. At the Nagpur centre, the Registrar is in charge of the conduct of examination and at the other two centres, the Principals. The University appoints two sets of tabulators and a scrutineer for checking of record of marks, who work independently. The results as prepared by them are compared and the mistakes, if any, are eliminated. They are then placed before the Registrar who checks and subjects the results to a further

scrutiny. These are then considered by the Special Examination Committee and the publication is finally ordered by the Executive Council.

### Number of students in the University under the different Faculties

			1939-40	1940-41
Arts	..	Undergraduates	.. 2,125	2,495
		Post-Graduates	.. 164	167
Science	..	Undergraduates	.. 883	924
		Post-Graduates	.. 34	46
Law	..	Previous and Final LL.B.	.. 397	374
Education	..	.. ..	.. 174	176
Agriculture		Undergraduates	.. 161	153

### Number of successful students in the different Examinations of 1940

			<i>Number appeared</i>	<i>Number passed</i>
M.A.	..	..	100	84
M.Sc.	..	..	23	13
B.A. (Honours)	..	..	9	7
B.Sc. (Honours)	..	..	3	2
B.Sc. (Pass)	..	..	116	50
B.A. (Pass)	..	..	557	285
B.T.	..	..	48	48
Previous LL.B.	..	..	254	166
Final LL.B.	..	..	256	229
Intermediate in Science (Agriculture)			64	43
B.Sc. (Agriculture)	..	..	45	27
Intermediate (Arts and Science)	..		1,111	585
B.A. (Honours) (in minor subjects)	..		18	18
B.Sc. (Honours) (in minor subjects)			5	4
LL.M. (Parts I and II)	..	..	2	..
Dip.T.	..	..	63	63
Diploma in Engineering (First)	..		61	39
Do. (Final)	..		36	30
Junior Diploma in Oriental Learning			59	43
Senior Diploma in Oriental Learning			10	9

**Number of successful students in the different  
Examinations of 1941**

				<i>Number appeared</i>	<i>Number passed</i>
M.A.	..	..	..	111	83
M.Sc.	..	..	..	20	14
B.A. (Honours)	..	..	..	16	14
B.Sc. (Honours)	..	..	..	4	4
B.Sc. (Pass)	..	..	..	133	83
B.A. (Pass)	..	..	..	669	340
B.T.	..	..	..	45	45
L.L.M. (Parts I and II)	..	..	..	4	..
Previous L.L.B.	..	..	..	250	154
Final L.L.B.	..	..	..	188	173
B.A. (Honours) (in minor subjects)*				22	19
B.Sc. (Honours) (in minor subjects)				10	10
Intermediate in Science (Agriculture)				39	27
B.Sc. (Agriculture)	..	..	..	48	41
Intermediate (Arts and Science)	..	..	..	1,290	789
DIP.T.	..	..	..	63	62
Diploma in Engineering (First)	..	..	..	71	44
Do. (Final)	..	..	..	35	25
Junior Diploma in Oriental Learning				60	46
Senior Diploma in Oriental Learning				10	9
Higher Diploma in Oriental Learning				1	1

**Endowments, Scholarships and Medals**

(1) *R. B. B. Gupta Gold Medal*: Awarded to the student who obtains the highest percentage of marks at the B.Sc. Examination of the year.

(2) *Radha Bai Paonaskar Scholarship and Medals*: (i) One scholarship of the value of rupees twenty per month awarded to the student who secures the highest number of marks from among the successful female candidates at the final examination held under the C.P. High School Education Act, 1922; (ii) One Gold Medal: awarded to the student who obtains the highest percentage of marks among the successful female candidates of the year at the B.A. and B.Sc. examinations; (iii) One Silver

Medal: awarded to the student who obtains the highest percentage of marks from among the successful female candidates of the year at the Intermediate Examination in Arts and Science; (iv) One Silver Medal: awarded to the student who obtains the highest number of marks among the successful female candidates of the year at the final examination held under the C.P. High School Education Act, 1922.

(3) *Ramakrishna Govind Motc Scholarship*: Awarded every alternate year to a Berar student who appears at the Intermediate Examination in Science of the University from the King Edward College, Amraoti (or when there is no Science course taught in that College, from any College in the Central Provinces) and who stands first from among the successful Berar students from that College.

(4) *Waman Raghunath Joshi Prize*: Awarded annually for the best essay in the Marathi language on a political or scientific subject alternately, to be competed for by graduates of the University.

(5) *K. B. H. M. Malak Gold Medals*: (i) One medal awarded every year to the Muslim student who obtains the highest percentage of marks at the B.A. and B.Sc. Examinations of the year; (ii) another medal awarded to the student who obtains the highest percentage of marks at the M.A. Examination of the year.

(6) *Daji Hari Wadgaonkar Gold Medal*: Awarded every year to the student who obtains the highest number of marks at the M.A. Examination of the year in Sanskrit and is placed either in the first or second division.

(7) *Jubbulpore Horticultural Show Prize*: Awarded to the student who stands first in Biology from among the successful students in the Intermediate Examination.

(8) *The Spence Medal*: Awarded to the successful student of the Spence Training College, who secures the highest number of marks at the B.T. Examination in the theoretical and practical branches taken together and gets a first class in the practical examination.

(9) *Sushila Vishnupant Jakatdar Elocution Prize*: Awarded annually to the best speaker at an elocution competition in English. The competitors shall be members of a College admitted to the privileges of the University or of the University College of Law.

(10) *Bulvant Rao Mahajan Prize*: Awarded annually to the student who obtains the highest percentage of marks from among the successful candidates for the M.Sc. Examination.

(11) *Dewan Bahadur Ballabh Das Scholarship*: Awarded to a student of the Robertson College who is successful at the B.Sc. Examination in the first or the second class and stands highest among the successful students of the College.

(12) *Rao Bahadur Bapu Rao Dada Kinkhede Lectureship*: A Lecturer on a remuneration of Rs. 1,000 appointed every alternate year to deliver a course of not less than three lectures.

(13) *Saraswati Bai Colte Gold Medal*: Awarded to a student who stands first in Sanskrit among the successful candidates at the B.A. Examination.

(14) *University Post-Graduate Research Scholarship*: Awarded to a student who has passed M.A. (in Mathematics) or M.Sc. Examination of this University, for carrying on research work in an institution approved by the Academic Council.

(15) *Korea Durbar Gold Medals*: (a) One medal awarded to the student who stands first in Hindi from among the successful students at the M.A. Examination; (b) and another awarded to the student who stands first from among the successful candidates at the B.A. Examination.

(16) *Dewan Bahadur Ramakrishna Rao Pandit Silver Medal*: Awarded to the student who obtains the highest number of marks in the Previous and Final LL.B. Examinations taken together and passes the Final LL.B. Examination within two years of joining the University College of Law.

(17) *University League of Nations Essay Gold Medal*: Awarded annually to the best competitor at an essay competition in English on a subject connected with the League of Nations. All students on the rolls of any college admitted to the privileges of this University are eligible to compete.

(18) *Sir Arthur Blennerhassett Memorial Silver Medals*: One Silver Medal awarded every year to each of the following students, who must have passed the examination either in the first or the second division:—

- (i) The student who stands first at the Intermediate Examination (Arts and Science) of the year.
- (ii) The student who stands first at the B.A.G. Examination of the year.
- (iii) The student who stands first at the Intermediate Examination in Agriculture of the year.
- (iv) The student who obtains the highest number of marks in Mental and Moral Science at the B.A. Examination of the year.

(v) The student who obtains the highest number of marks in Political Science at the B.A. Examination of the year.

(vi) The student who obtains the highest number of marks in a Modern Indian Language at the B.A. Examination of the year.

(19) *N. K. Behere Gold Medal*: Awarded every year to the candidate who obtains the highest number of marks in Marathi at the Previous and Final M.A. Examinations taken together.

(20) *Ramanujam Mathematics Gold Medal*: Awarded annually to the student who obtains the highest number of marks in Mathematics at the B.A. and B.Sc. Examinations of the year, provided that he obtains not less than 60 per cent. of total marks in Mathematics.

(21) *V. R. Lakhkar Silver Medal*: Awarded to a successful candidate who obtains the highest number of marks in Economics (being not less than 50 per cent.) at the B.A. Examination of the year.

(22) *Vice-Chancellor's Gold Medal*: Awarded to the student who obtains the highest number of marks at the B.A. Examination of the year in English or such other subject as the Vice-Chancellor may select (the subject selected being announced at least one year before the commencement of the examination) and is placed in the first or the second division.

(23) *Kesheo Wadegaonkar Silver Medal*: Awarded annually to the student who passes the Intermediate Examination (in Arts and Science) of the year with the highest number of marks in Mathematics.

(24) *N. K. Behere Depressed Classes Prizes*: Awarded every year to the following students:—

(i) *The First Behere Depressed Classes Prize*: One prize of the value of Rs. 20 to the student who obtains the highest number of marks from among the successful candidates belonging to the Depressed Classes at the Intermediate (Arts and Science) Examination of the year and who joins a college in C.P. or Berar for further study.

(ii) *The Second Behere Depressed Classes Prize*: One prize of the value of Rs. 15 to the student who obtains the highest number of marks from among the successful candidates belonging to the Depressed Classes of the High School Certificate Examination of the Central Provinces of the year and who joins a college in C.P. or Berar for further study.

(25) *Shrimati Jayanti Bai Kolte Silver Medal*: Awarded annually to a successful candidate who stands first in Marathi at the B.A. Examination.

(26) *N. K. Behere Inter-Communal Understanding Prizes*: Awarded every year as follows:—

(i) A prize of Rs. 20 to the candidate who obtains the highest number of marks in Persian, Urdu, Sanskrit, or Marathi at the Intermediate Examination in Arts and Science of the year from among—

(a) the successful Hindu candidates, with Marathi as their mother tongue and with Persian or Urdu as one of their subjects for the examination; and

(b) the successful Mahomedan candidates, with Sanskrit or Marathi as one of their subjects for the examination.

(ii) A prize of Rs. 15 to the candidate obtaining the highest number of marks in Persian, Urdu, Sanskrit, or Marathi at the High School Certificate Examination of the year of the Central Provinces, from among—

(a) the successful Hindu candidates, with Marathi as their mother tongue and with Persian or Urdu as one of their subjects for the examination; and

(b) the successful Mahomedan candidates, with Sanskrit or Marathi as one of their subjects for the examination.

(27) *Radha Bai Govind Oka Scholarship*: Awarded to the woman student who passes the Intermediate Examination in Science of Nagpur University for the study of medical science at an institution approved and for a period fixed by the Academic Council.

(28) *Gopalrao Ganesh Chate Gold Medal*: Awarded annually to the successful examinee who obtains the highest number of marks in Chemistry at the examination for the Degree of Bachelor of Science with Honours of the year.

(29) *Chandrabhaga Bai Chate Gold Medal*: Awarded annually to the successful examinee, who obtains the highest number of marks in Zoology at the Examination for the Degree of Bachelor of Science with Honours for the year.

(30) *Prakya Ganpat Rao Gold Medal*: Awarded annually to the successful examinee who obtains the highest percentage of marks at the B.A. (HONS.) and B.Sc. (HONS.) Examinations of the year.

(31) *R. B. Silaram Ramachandra Pandit Silver Medal*: Awarded annually to the successful examinee who stands first in English as a major subject at the B.A. (HONS.) Examination.



(32) *Krishna Rao Golwalker Prize*: Awarded to the examinee who obtains the highest percentage of marks from among the successful Hindu women examinees at the B.A. and B.Sc. Examinations of the year.

(33) *Hari Pandit Prize*: Awarded to the successful examinee at the Intermediate (Arts and Science) Examination who obtains the highest percentage of marks from among the Hindu women examinees at the examination.

(34) *Chakradeo Memorial Gold Medal*: Awarded annually to the successful examinee who obtains the highest number of marks at the B.Ag. Examination.

(35) *Madhav Rao Gangadhar Rao Chitnavis Memorial Fund*: Income applied to the purchase of books in Marathi and Sanskrit for the University Library.

(36) *Rao Bahadur Shridhar Ganesh Paranjpe Memorial Lectureship*: A lectureship on a remuneration of not exceeding Rs. 200 is appointed every year or every alternate year to deliver a course of not more than six lectures in Marathi.

(37) *Madhav Rao Chandorkar Memorial Gold Medal*: Awarded to the successful examinee who obtains the highest number of marks in English at the B.A. (Hons.) Examination.

(38) *Ramachandra Krishna Chandorkar Memorial Gold Medal*: Awarded annually to the successful examinee who obtains the highest number of marks in Physics at the B.Sc. (Hons.) Examination.

(39) *The Morris Memorial Fellowship Fund*: A fellowship of the value of Rs. 75 per mensem awarded for post-graduate study or research in Arts or Science to be prosecuted in a college in the Central Provinces and Berar and a scholarship of the value of Rs. 25 per mensem awarded for study for the M.A. or M.Sc. Degree.

(40) *The Shirole Scholarship Arts Fund*: Four scholarships of the value of Rs. 8 and Rs. 10 per mensem respectively awarded to two Maratha Brahmin boys standing highest at the High School Certificate and Intermediate (Arts and Science) Examinations, respectively.

(41) *Robertson Gold Medal*: Awarded to the student standing first at the B.A. (Pass) Examination.

(42) *Narayan Mukund Paonasker Prize*: A prize of Rs. 50 awarded to the student standing first at the Intermediate (Arts and Science) Examination.

(43) *Shivaji Narayan Gold Medal*: Awarded every year to the examinee who obtains the highest number of marks in Economics at the B.A. (Pass) Examination.

(44) *Soubhagyavati Parbati Bai Makode Gold Medal*: Awarded every year to the examinee who obtains the highest number of marks in Marathi at the B.A. (Pass) Examination.

(46) *The Hai-Hai Kshatriya Education Fund*: One A prize and a gold medal of the value of Rs. 32 for Marathi Literature awarded once in every three years to the author of the book adjudged by the Board of Studies in Marathi of Nagpur University to be the best among the Marathi books published during the period.

(46) *The Hai-Hai Kshatriya Education Fund*: One monthly scholarship (of such value as may be fixed by the Academic Council from time to time) to the student who stands first from among those successful candidates of the Hai-Hai Kshatriya community at the C.P. and Berar High School Certificate Examination of the year and who joins the course for the Intermediate (Arts and Science) Examination in a college.

(47) *Vasant Krishnarao Khandekar Scholarship and Medal*: A gold medal every year to the student who obtains the highest number of marks in Pure Mathematics from among the successful examinees at the B.Sc. (Pass) Examination of the year and a scholarship of the value of rupees twenty per month every alternate year to the student who obtains the highest number of marks from among the successful examinees at the Intermediate (Arts and Science) Examination of the year.

### Library and Laboratories

*Libraries*.—Each college maintains its own library, which is sufficient for its needs. The University Library is housed in a spacious building which adjoins the Office and Convocation Hall. The total amount spent for purchasing books since 1924 is Rs. 1,65,118-3-8. The Library, at present, contains 38,250 volumes. In addition, there is a well-stocked Law Library for the University College of Law. It is up-to-date and has got a fairly complete set of Law Reports, Indian and English.

*Laboratories*.—The Laboratories of the connected institutions are fairly well fitted up for teaching Science subjects up to the standards for which they teach.

### Provision for Research

There is at present no special provision made for organized research, but the University awards one Post-Graduate Scholarship in Science for carrying on research work at an approved institution.

### Publication and Extension Work

There are no University publications of research papers, no research work being done under the direct management of the University at present. The University does, however, publish a Journal of Research called the *Nagpur University Journal*, beginning with the year 1935.

### Military Training

The University Training Corps was instituted on 9th June 1928. The strength of the Corps on 31st March 1939, is as follows :—

			All non-commissioned ranks
Morris College, Nagpur	..	..	79
Hislop College, Nagpur	..	..	50
College of Science, Nagpur	..	..	49
College of Agriculture, Nagpur	..	..	22
City College, Nagpur	..	..	17
Robertson College, Jubbulpore	..	..	74
Hitkarni City College, Jubbulpore		..	21
King Edward College, Amraoti	..	..	45
Govt. Engineering School, Nagpur		..	29
TOTAL			386

A building for accommodating the office and stores of the Corps was constructed by the University in August 1934. The Ordinances provide for the inclusion of Military Science as an optional subject for the Intermediate (Arts), B.A. and B.Sc. Examinations, though on account of financial stringency, the Provincial Government has not been able to sanction any grants for instruction in Military Science.

### Associations in the University

The connected colleges have their own debating and literary societies. Some of these are inter-collegiate, *e.g.*, Nagpur Philosophical Society, Historical Society, Economic Society, etc. There is a University Union Society which is doing excellent work in providing recreation and a reading room for its members and in holding periodical debates on various subjects of public interest.

### **Residence and Cost of Living**

It is difficult to make a general statement in the matter. The cost of boarding varies with the Hostel. The arrangements in all the hostels are in charge of the students themselves. Every college has a hostel. Besides, in Nagpur there is a hostel managed by the Y.M.C.A., which is recognised by the University.

### **Budget: Provident Fund**

The total income (exclusive of deposits) for the year 1940-41 was Rs. 2,00,572-11-7. As against this, there was an expenditure (exclusive of debt heads) of Rs. 2,64,716-14-5.

Every whole-time officer, teacher, or other servant of the University other than one whose services have been lent to the University by Government, permanently appointed to a substantive appointment, has as a condition of his service, to become a depositor in the University Provident Fund.

Subscription to the fund is 8 per cent. on the salaries of the depositors, deducted monthly from their salaries. Every month, the University makes, in the case of each subscriber, a contribution at the rate of 12 per cent., 8 per cent. in the case of new entrants, on his salary and this is placed to the credit of the depositor.

No subscriber is entitled to receive any contribution to his provident fund from the funds of the University if his services have been dispensed with for misconduct.

Compound interest reckoned half-yearly at  $3\frac{1}{2}$  per cent. is allowed at present on the amount standing to the credit of every depositor on the 30th June and 31st December, respectively, in each year.

### **Women's Education**

The Central College for Women, Nagpur, is the only institution admitted to the privileges of the University. The University has made a Statute, under which the Executive Council grants permission to women—who have not pursued a course of studies in the University or a College—to appear at the University examinations.

At the University Examinations held in March and April 1941, one hundred and seventeen women candidates passed in the Intermediate Examination, and forty-five passed in the B.A. Examination and three passed the B.Sc. Examination, and one at the Final LL.B. Examination.

A number of prizes, medals and scholarships are reserved exclusively for women.

### **Students' Information Bureau and its Activities**

The University took over the work of the Students' Information Bureau from the Students' Advisory Committee on the 1st April 1926. It has since been rendering valuable help to the students of the University by dissemination of information regarding foreign Universities and by arranging for their admission at British Universities. On account of the war conditions, no student could proceed to the United Kingdom for studies during the year.

### **Provision for Safeguarding Health, Medical Inspection, Discipline, etc.**

An important step towards the promotion of the physical welfare of its students was taken by the University, when, on the Local Government agreeing to contribute half the cost of his salary, the University appointed a whole-time Director of Physical Education, with effect from 7th August 1935, for the organization and supervision of physical education in the University. Further details of the scheme of physical education were worked out and embodied in an Ordinance under which every male student prosecuting a course for the Intermediate (Arts and Science) Examination will be required to prosecute for at least one year a course of physical instruction in one of the approved items. The Ordinance also establishes a Board of Physical Welfare, with the Director of Physical Education as Secretary, for the purpose of organizing and co-ordinating the medical inspection, physical education, sports tournaments and other activities relating to the physical welfare of students. In order to enable the colleges to take full advantage of the scheme of physical education, the University has also appointed, for the first two years of the operation of the scheme, two physical instructors at Nagpur and one each at Jubbulpore and Amraoti.

Almost all the colleges connected with the University have good playing fields attached to them and ample opportunities are given to the students to take part in out-door games. Besides, the University holds annually a Sports Tournament in which all the Colleges take part. The most popular games are Tennis, Hockey and Football. Those qualified to express an opinion in this matter have said that the games seen on these occasions are of a fairly high order. During the year the University acquired about 18 acres of land, which is a combined gift of the Provincial Government and Mr. W. R. Puranik. His Excellency the Chancellor laid the Foundation Stone of the Sports Pavilion on December 5, 1937.

## Courses of Study, Examinations and Degrees

The University confers the degrees of B.COM. in Commerce; B.A., B.A. (HONS.), M.A., PH.D. and D.LITT. in Arts; B.Sc., B.Sc. (HONS.), B.Sc. (TECH.), M.Sc. and D.Sc. in Science; LL.B., LL.M. and LL.D. in Law; B.T. and M.Ed. in Education; and B.Sc. (AGR.), M.Sc. (AGR.) and PH.D. in Agriculture; Diplomas in Teaching and Engineering are also awarded. Examinations in Oriental Learning are being held from the year 1938. With effect from 1941, an examination for the Diploma in Co-operation will be held. Only graduates in Arts of Nagpur University are eligible for the examination.

## Admission to the University

Admission to the University is confined to students who have passed the High School Certificate Examination held under the C.P. High School Education Act of 1922 (also as applied to Berar) or any other recognised equivalent examination.

### COURSES OF STUDY AND EXAMINATIONS IN THE FACULTY OF ARTS

*Admission to Examinations.*—For all examinations of the University, candidates must have prosecuted a regular course of studies in a college except as follows:—

(a) Teachers of recognized educational institutions in the Province may, under certain conditions, be admitted to the examinations in Arts and Science [except B.A. (HONS.) and B.Sc. (HONS.)].

(b) Women candidates who have not pursued a regular course of studies in a college or in the University may be admitted to an examination other than that for B.A. (HONS.) and B.Sc. (HONS.) under certain conditions.

(c) Candidates who have been admitted once to an examination in Arts, Science, Law and Agriculture, may be re-admitted to the examination, without joining a college.

(d) A B.A. of any recognized university may be admitted to the M.A. Examination provided the subject taken by him for the M.A. Examination is one of the subjects taken by him at his B.A. Examination and not less than three years shall have elapsed since his graduation for the purpose of admission to the Final M.A. Examination. A similar rule is in force in respect of the B.Sc.'s for the purpose of admission to the M.Sc. Examination in Mathematics.

(e) A whole-time librarian or clerk of (a) the Nagpur University Library; (b) a Library of a College connected with the University; or (c) a Library in the Central Provinces and

Berar recognized by the Academic Council, may be admitted, under certain conditions, to the Intermediate (Arts and Science) Examination or the Examination for the B.A. (Pass), B.Sc. (Pass), M.A. or M.Sc. Degree.

*Intermediate Examination.*—The course of study extends over two years subsequent to passing the High School Certificate examination or any other recognized equivalent examination and candidates are required to study for the examination: 1. English (3 papers), 2. Composition in vernacular (1 paper), 3. Any three of the following:—Mathematics (3 papers), a Classical Language (2 papers), History (2 papers), Logic (2 papers), Economics (2 papers), French (2 papers). According to the amendments of Ordinances recently passed Civics, a Modern Indian Language, Geography, Music and Home Science (for women only) also form optional subjects for all candidates.

Candidates who obtain 30 per cent. in each subject and 33 per cent. in the aggregate are qualified for a pass in the Third Class; those obtaining less than 60 per cent. but not less than 45 per cent. for a pass in the Second Class; and those obtaining 60 per cent. or more in the aggregate, for a pass in the First Class.

*Bachelor of Arts (Pass).*—Candidates who have passed the Intermediate Examination of this or any other recognized equivalent examination of another University are eligible for admission to the course, which extends over two academical years. The subjects for study and examination are General English (2 papers) and two of the following:—1. Special English (2 papers), 2. A Classical Language, 3. A Modern Indian Language (3 papers), 4. French (3 papers), 5. Pure Mathematics (3 papers), 6. Applied Mathematics (3 papers), 7. History and Allied Geography (2 papers), 8. Economics (2 papers), 9. Philosophy (3 papers), 10. Political Science (2 papers), 11. Military Science.

Candidates who obtain 33 per cent. in each subject are entitled to a pass. Those obtaining 60 per cent. or more in the aggregate are placed in the First Division; those obtaining less than 60 per cent. but not less than 45 per cent. in the aggregate, in the Second Division; and those obtaining less than 45 per cent. in the Third Division.

*Bachelor of Commerce.*—With effect from examinations of 1942 the University has instituted courses in Commerce and Ordinances prescribing the conditions of admission to the Intermediate Examination in Commerce and examination for the degree of Bachelor of Commerce have been framed. The course for each of the two examinations will extend over a period of two years. Every candidate for the Intermediate Examination

in Commerce shall be examined in' (1) English; (2) Economics; (3) Book-keeping and Accountancy; (4) Commerce; (5) Regional and Commercial Geography; (6) Mercantile Law and Business Method; (7) Indian Administration; and (8) Composition in one of the following modern Indian languages, *vis.*, Hindi, Marathi, Urdu, Bengali, Telugu, Gujarati and Oriya.

The subjects for study for the degree of B.COM. are as follows: (1) English; (2) Money, Banking and Foreign Exchange; (3) Statistics; (4) Business Organisation and Methods; (5) Mercantile and Industrial Law; (6) Modern Economic Development of India; (7) One of the following subjects, *vis.*, (a) Advanced Accounting and Auditing; (b) Advanced Banking; (c) Indian Cotton Industry; (d) Insurance; and (8) *Viva Voce*.

*Master of Arts.*—The course extends over two academical years subsequent to the passing of the B.A. Examination. A candidate may offer any one of the following subjects:—A Language (English, Sanskrit, Pali and Prakrit, Arabic, Persian, Marathi, Hindi or Urdu), Mental and Moral Science, History, Mathematics, Economics or Political Science.

The number of papers prescribed for each subject in the M.A. Examination is given below:—

1. English	.. 7	8. Hindi	.. .. 8
2. Sanskrit	.. 8	9. Mental and Moral Science	8
3. Pali and Prakrit	8	10. History	.. 6
4. Arabic	.. 8	11. Mathematics (Pure)	.. 7
5. Persian	.. 8	12. Mathematics (Applied)	7
6. Urdu	.. 8	13. Economics	.. 9
7. Marathi	.. 8	14. Political Science	.. 7

The *viva voce* examination is taken in the case of candidates offering English, History, Economics and Mental and Moral Science.

The marks required for passing the Examination are 36 per cent.

For a	I Division	.. 60	} per cent. of the aggregate marks.
	II Division	.. 48	
	III Division	.. 36	

*B.A. (Hons.) and B.Sc. (Hons.).*—The course for the degrees extends over three years and only those who pass the Intermediate Examination in the first or second division will be admitted to the course. Each candidate is required to take one major subject and two minor subjects, one of which, in the case of B.A. (Hons.) shall be General or Special English. The list of subjects from which major and minor subjects may be selected is the same as that for B.A. (Pass) and B.Sc. (Pass) Examinations respectively. (French and Latin may not be



offered as major subjects.) 'The standard of the Examination shall be the same as that of the present M.A. and M.Sc. Examinations. The first Honours Examination was held in March 1936. In or after 1936, the candidates who have passed the B.A. or B.Sc. (Pass) degree examination may take the Honours Examination in the major subject, after a course of two years and if successful will be declared to have passed the M.A. or M.Sc. Examination. Honours graduates will be eligible for the Master's degree after a lapse of one year, without any further examination.

*Doctor of Philosophy.*—Candidates who have obtained the degree of Master of Arts of this University or a degree of any University recognised by Nagpur University as equivalent to its degree of M.A. are eligible for this degree, provided three years have elapsed since the Master's degree was taken. Every candidate shall prepare his thesis under the guidance of a supervisor to be appointed by the Academic Council.

*Doctor of Letters.*—Candidates who have been admitted not less than three years previously to the degree of Doctor of Philosophy of Nagpur University or to a degree recognized by the University as equivalent thereto, or not less than eight years previously to the degree of Master of Arts of the University or to a degree recognised by the University as its equivalent are eligible to offer as a candidate for the Degree of Letters. Every candidate for the degree must submit one or more treatises being original contributions to the advancement of learning.

## SCIENCE

*Intermediate Examination.*—The conditions of admission to the course are the same as those for the Intermediate Examination in Arts and a candidate is required to study for examination in the following:—(1) English (3 papers), (2) Composition in a vernacular (1 paper), (3) Physics (2 papers and a practical examination), (4) Chemistry (2 papers and a practical examination), (5) Mathematics (3 papers) or Biology (2 papers and a practical examination).

Candidates who obtain 30 per cent. of the marks in each subject and 33 per cent. in the aggregate are eligible for a pass, those obtaining 60 per cent. or more being placed in the First Division, those obtaining less than 60 per cent. but not less than 45 per cent. in the Second Division, and other successful candidates in the Third Division.

*Bachelor of Science (Pass).*—The course extends over two academical years subsequent to passing the Intermediate Examination or any recognized equivalent examination of another

University. The following are the subjects for study and examination:—General English and one of the following groups, *viz.*, (1) Pure Mathematics, Physics and Chemistry, *or* (2) Chemistry, Botany and Zoology, *or* (3) Pure Mathematics, Applied Mathematics and Physics, *or* (4) Pure Mathematics, Applied Mathematics and Chemistry. It is also possible to offer Military Science as an option.

The minimum marks for success at the examination are the same as those for B.A. Examination except that candidates must pass separately in the practical part of each laboratory subject.

*Master of Science.*—The course of study extends over two years subsequent to passing the B.Sc. Examination of Nagpur University or an equivalent recognized Examination of any other University. The following are the subjects for study and any one of them may be selected:—Physics, Chemistry, Zoology, Mathematics *or* Botany.

The number of papers prescribed is as follows:—

1. Mathematics (Pure) ..	7	4. Chemistry ..	5
2. Mathematics (Applied) ..	7	5. Zoology ..	5
3. Physics ..	5	6. Botany ..	5

*Doctor of Science.*—Candidates who have obtained the Master's Degree in Arts of this University with Mathematics as a subject of their examination, or a Master's Degree in Science are eligible to offer a thesis for the D.Sc. Degree provided three years have elapsed since the Master's Degree was taken. Every candidate must submit a thesis based on the result of research on a subject prescribed for the M.Sc. Examination and conducive to the advancement of Science in general.

#### COURSES OF STUDY, EXAMINATIONS AND DEGREES LEADING TO PROFESSIONS

##### LAW

*Bachelor of Laws (LL.B.).*—The course extends over two academical years and is open only to Bachelors of Arts or Science of this or of any other recognized University. The B.COM.'s of certain Universities and the B.AG.'s of Nagpur University are also eligible for admission to the course. There are two examinations, the PREVIOUS and the FINAL Examinations, at the end of the first and second years respectively. The following are the subjects for study and examination:—

*Previous Examination.*—(1) Jurisprudence, (2) Constitutional Law, (3) Roman Law, (4) Law of Contracts, (5) Law of Evidence, (6) Criminal Law and Procedure, and (7) Law of Easements and Torts.

*Final Examination.*—(1) Hindu Law, (2) Mahomedan Law, (3) The Law of Land Tenures, (4) Law relating to Property, (5) Civil Procedure, (6) Principles of Equity, (7) Special Acts.

One paper is set in each of the seven subjects, both in the Previous and Final Examinations. Candidates who obtain 33 per cent. of the marks in each subject and 50 per cent. or more in the aggregate are qualified for a pass at each of the examinations; those obtaining 60 per cent. or more of the aggregate marks obtainable at the two examinations taken together being placed in the First Class and other successful candidates in the Second Class.

\* *Master of Laws (LL.M.).*—The course is open to Law graduates of this University and of other recognized Universities. At least two years' study under the direction of an approved person is necessary. The Examination consists of Part I and Part II.

Every candidate for Part I of the Examination is examined in the following four subjects and every candidate for Part II of the Examination, in any two of them:—

*Part I*, which shall consist of the following four subjects, *viz.*:—

- (i) Jurisprudence and Principles of Legislation;
- (ii) Constitutional Law and History,—British and Indian;
- (iii) Hindu Law, or Mahomedan Law;
- (iv) Principles and History of Roman Law; and

*Part II*, for which any two of the following subjects may be chosen, *viz.*,

- (v) Hindu Law, or Mahomedan Law (whichever is not chosen under Part I);
- (vi) Law of Crimes;
- (vii) Principles of Equity, including Trusts and Specific Relief;
- (viii) The Law relating to the Transfer of Immovable Property and the Law of Easements;
- (ix) The Law relating to Wills and Administration;
- (x) The Law of Torts;
- (xi) The Law of Contracts;
- (xii) Public International Law;
- (xiii) Private International Law;
- (xiv) Mercantile Law;
- (xv) The Law relating to Land Tenures in British India;
- (xvi) Principles and History of the Law of Real and Personal Property.

*Doctor of Laws (LL.D.).*—The examination is open to those who have obtained the Master's Degree in Law of this University or any recognized University. Three years' study under the directions of an approved person is necessary. Candidates should submit a thesis composed on some branch of Law or on the History and Philosophy of Law and if so desired, submit themselves for an oral examination with reference to the subject-matter of the thesis.

### AGRICULTURE

*Intermediate Examination.*—The course of study extends over two years subsequent to passing the High School Certificate Examination or any other recognized equivalent examination and candidates are required to study and be examined in (1) Agriculture, (2) Mathematics and Agricultural Engineering, (3) Chemistry, (4) Botany. (5) English.

In order to pass, a candidate must obtain 40 per cent. of the aggregate marks, besides the prescribed minimum for each subject and paper. Successful candidates obtaining 60 per cent. or more of the aggregate marks are placed in the First Division; those obtaining less than 60 per cent. but not less than 48 per cent. are placed in the Second Division; and all other successful candidates in the Third Division.

*B.Sc. (Agr.) Examination.*—Candidates who have passed the Intermediate Examination are eligible for admission to the course which extends over two academic years. The subjects for study and examination are: (1) Agriculture, (2) Chemistry, (3) Agricultural Botany and Plant Pathology.

In order to pass, a candidate must obtain in each subject and paper the minimum marks prescribed and in the aggregate not less than 40 per cent. of the total marks obtainable. Successful candidates who gain 60 per cent. or more of the aggregate marks shall be placed in the First Division; those who gain not less than 48 per cent. of the aggregate marks, in the Second Division; and the rest in the Third Division.

In both the Intermediate (Agr.) and B.Ag. Examinations there are Practical Examinations in all subjects except English and students are required to pass them separately at the examinations.

### TEACHING

*Bachelor of Teaching (B.T.).*—The course extends over one academic year subsequent to the taking of a degree of this or any recognized University. The Examination is in two parts, the First Part consisting of Principles of Education, History of Education, Educational Psychology, Methods of Teaching

particular subjects, School Organization and Hygiene; and the Second Part being mainly a practical test in Teaching. In addition to this, a candidate must have completed satisfactorily the following courses:—Physical Training, Pedagogical Drawing and English Phonetics. Five papers will be set in Part I, one on each of the subjects selected.

Candidates who obtain 60 per cent. or more in the first part and 80 per cent. or more in the second part are placed in the First Class; those obtaining 40 per cent. in the first part and 60 per cent. or more in the second part, in the Second Class; those obtaining 32 per cent. of the aggregate marks in the first part and 40 per cent. in the second part, in the Third Class.

*M.Ed. (from 1940).*—1. (a) Any graduate in Arts or Science of a recognized University who has been admitted to the degree of Bachelor of Teaching of Nagpur University or to a degree recognized by Nagpur University as equivalent thereto for the purpose of this Ordinance may, subject to the provisions of this Ordinance, offer himself as a candidate for the degree of Master of Education.

Provided that he shall have passed the examination for the degree of B.T. or its equivalent in the first or second division both in theory and in practice.

(b) In exceptional cases, a person not eligible under clause (a) of this paragraph may, on the recommendation of the Faculty of Education, be permitted by the Academic Council to offer himself as a candidate for the degree; provided that

(i) he has passed in the first or second division the Examination for the M.A. or M.Sc. degree of the University or for the degree of another university recognized by the University as equivalent thereto, for the purpose of this Ordinance, and has been admitted to the degree; and

(ii) he holds a Diploma or a Certificate in Teaching, which, in the opinion of the Faculty of Education, is of a sufficiently high standard.

2. The examination shall consist of two parts as follows, *viz.*:—

*Part I*—A written examination in:—

(1) Principles of Education.

(2) Practice of Education.

(3) and (4) Two of the following, *viz.*:—

(i) Educational Psychology.

(ii) Experimental Pedagogy.

(iii) Social Philosophy.

(iv) History and Present State of Education in India.

- (v) History of Education in Europe.
- (vi) Comparative Study of Present-day Educational Systems.

*Part II*—A thesis embodying the results of individual research in one of the subjects offered for Part I of the examination.

3. One paper shall be set in each of the subjects for Part I of the examination, the maximum marks for each paper being 100.

*Diploma in Teaching.*—The Diploma course extends over two years and is open to those who have passed the C.P. High School Certificate Examination or an equivalent recognized examination.

### Examination Fees

	Rs.
(a) Faculties of Arts and Science—	
1. Intermediate Examination with Arts subjects ..	25
2. Intermediate Examination with Science subjects ..	30
3. B.A. (Pass) Examination .. ..	32
4. B.Sc. (Pass) Examination .. ..	35
5. M.A. Examination .. ..	60
6. (a) M.Sc. Examination in Pure Mathematics or Applied Mathematics .. ..	60
(b) M.Sc. Examination in other subjects ..	65
7. M.A. Examination .. ..	40
8. M.Sc. Examination .. ..	42
9. PH.D. Examination (Arts) .. ..	200
10. D.LITT. Examination .. ..	200
11. D.Sc. Examination (Science) .. ..	200
12. B.A. (HONS.) Examination: Rs. 60 for a major subject and Rs. 16 for each minor subject.	
13. B.Sc. (HONS.) Examination: Rs. 60 for the major subject Pure Mathematics or Applied Mathematics, Rs. 60 for other major subjects and Rs. 17-8-0 for each minor subject.	
14. The Junior Diploma Examination in Oriental Learning	2
15. The Senior Diploma Examination in Oriental Learning	4
16. The Higher Diploma Examination in Oriental Learning	8
17. Additional Fee for re-admission to an examination in Oriental Learning .. ..	1

			Rs.
18.	The First Examination for the Diploma in Engineering .. .. .	30	
19.	The Final Examination for the Diploma in Engineering .. .. .	35	
20.	The Examination for the Degree of Bachelor of Science (Technology) .. .. .	40	
21.	The Examination for the Diploma in Co-operation ..	40	
22.	The Intermediate Examination in Commerce ..	25	
23.	The B.COM. Examination .. .. .	30	
(b) Faculty of Law—			
1.	LL.B. Examination (Previous) .. .. .	30	
2.	LL.B. Examination (Final) .. .. .	35	
3.	LL.M. Examination* .. .. .	200	
4.	LL.D. Examination .. .. .	200	
(c) Faculty of Education—			
1.	B.T. Examination .. .. .	32	
2.	DIP.T. Examination .. .. .	20	
3.	M.ED. Examination (Part I) .. .. .	100	
(d) Faculty of Agriculture—			
1.	Intermediate Examination in Science (Agriculture) ..	30	
2.	B.Sc. (AGR.) Examination .. .. .	35	
3.	M.Sc. (AGR.) Examination .. .. .	90	

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\* In the case of applicants who have passed Part I of the examination in or before 1942, the fee is Rs. 100.

# Osmania University

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## Introductory

The Osmania University which was established by a Charter in 1918 is the first attempt in India to impart University Education through the vernacular, English being a compulsory second language. For over half a century, higher education in the State was controlled by the Madras University, but the results were so discouraging that in 1917, the Right Honourable Sir Akbar Hydari, Kt., P.C., B.A., I.L.D., D.C.L. (Nawab Hydar Nawaz Jung Bahadur), then Secretary to His Exalted Highness' Government in the Educational Department, submitted a Memorandum to His Exalted Highness in which, after surveying the existing conditions and discussing the disadvantages of imparting knowledge through the medium of a foreign language, he recommended the inauguration of a University which should be both an examining and a teaching body and in addition to this should undertake to compile and translate books, using the Urdu language as the medium of instruction and examination. The standard of compulsory English is nearly the same as in other Universities, and enables the alumni of the Osmania University to keep in touch with the currents of thought in the English-speaking world and prevents them from being confined to the publications of the University. An important feature of the University is the Bureau of Translation with a large staff of qualified translators. The work attempted by the Bureau embraces the whole range of University studies including History, Geography, Philosophy, Economics, Mathematics, Physics, Chemistry, Botany, Zoology, Pedagogics, Law, Medicine, Engineering and Geology. All the books required for the Intermediate, B.A. and I.L.B. Examinations have been translated and published. The Bureau is now actively engaged in the translation and publication of books required for the Faculties of Medicine and Engineering and for post-graduate studies in Arts and Science.

## Constitution of the University

The constitution differs in some respects from that of the older Indian Universities. The Council is the highest governing body of the University, and practically performs most of the functions of the Government in British Indian Universities. The Senate has the entire charge of the organization of instruction



in the University, the constituent colleges, the curricula of the examinations, etc., and consists of not less than 40 and not more than 70 members. The Syndicate is the business Committee of the Senate and consists of not less than five and not more than seven members of the Senate. The Faculties which consist mainly of the Professorial staff are the Academic Committees of the Senate entrusted with the framing of the curricula and arranging for examinations and other matters.

### Character of the University

The University is of the unitary type. There are four institutions at Hyderabad, Aurangabad, Warangal and Gulbarga which are allowed to prepare and present candidates for the Intermediate Examination of the University besides the Women's College which has Intermediate, B.A., B.Sc., M.A., M.Sc. and DIP. in Ed. classes. A College of Medicine was opened in July 1927, and an Engineering College and a College for the training of teachers in 1929.

### Officers and Staff of the University

#### PATRON

His Exalted Highness General, Sipah Salar, Asifjah, Muza-  
ffar-ul-Mulk Wal Mamalik, Nizam-ul-Mulk, Nizam-ud-Doulah,  
Nawab Sir Mir Osman Ali Khan Bahadur, Fateh Jung, Faith-  
ful Ally of the British Government, G.C.S.I., G.B.E., Nizam of  
Hyderabad and Berar, *Sultan-ul-Ulum*.

#### CHANCELLOR

H.E. Col. Nawab Sir Muhammad Ahmad Said Khan Bahadur,  
K.C.S.I., K.C.I.E., M.B.E., LL.D.

#### VICE-CHANCELLOR

The Hon'ble Nawab Mahdi Yar Jung Bahadur, M.A. (Oxon.).

#### PRO-VICE-CHANCELLOR

Qazi Mohamad Husain, Esq., B.A., LL.B. (Cantab.) (*Offg.*).

#### REPRESENTATIVE ON THE INTER-UNIVERSITY BOARD

The Hon'ble Nawab Mahdi Yar Jung Bahadur, M.A. (Oxon.).

#### REGISTRAR

Dr. Syed Husain, M.Sc., Ph.D. (London).

## THE COUNCIL,

*(Ex-officio)*

The Chancellor.

The Vice-Chancellor.

The Pro-Vice-Chancellor.

The Finance Member, Executive Council.

The Member for Religious Affairs, Executive Council  
(The Hon'ble Mr. Syed Abdul Aziz).The Secretary, Educational Department (Syed Mohiuddin,  
Esq., B.A., Bar-at-Law).The Director of Public Instruction [Syed Md. Husain  
Jafari, Esq., B.A. (Oxon.)].The Principal, Medical College [Dr. Brij Mohan Lal, B.A.  
(Mad.), M.B.B.S. (Bom.), M.Sc. (Lond.)].The Principal, Engineering College [Hasan Latif, Esq., C.E.  
(King's College, London)].The Principal, Women's College [Begam Zain Yar Jung,  
B.A. (Hons.) (Cantab.)].*Appointed by Government*The Hon'ble Raja Dharam Karan Bahadur, H.C.S., Member,  
P.W., Executive Council.Nawab Mirza Yar Jung Bahadur, B.A., LL.B., President,  
Judicial Committee.R. M. Crofton, Esq., C.I.E., I.C.S., Director-General and  
Secretary to Government, Revenue Department.

M. Liakatulla Khan, Esq., H.C.S., Financial Secretary.

Nawab Jiwan Yar Jung Bahadur, B.A. (Cantab.), Bar-at-  
Law, Chief Justice.Dr. H. Hyder Ali Khan, L.M. & S. (Bom.), F.R.C.S.E. (Edin.),  
Director, Medical and Sanitation Departments.

## THE SYNDICATE

Qazi Mohamad Husain, Esq., B.A., LL.B. (Cantab.).

Hosain Ali Khan, Esq., B.A. (Oxon.), Bar-at-Law.

Hasan Latif, Esq., C.E.

Dr. Brij Mohan Lal, M.B.B.S., M.Sc. (Lond.).

Syed Muhammad Azam, Esq., M.A. (Cantab.), B.Sc. (Hons.)  
(Lond.), F.C.S., E.E.

Syed Muhd. Husain Jafari, Esq., B.A. (Oxon.).

Dr. Amina Pope, M.A., D.Litt.

## OSMANIA UNIVERSITY COLLEGE

- Botany** .. Mr. M. Sayeeduddin, B.Sc. (Bom.), M.A. (Edin.), Professor; Mr. Abdul Bari, M.Sc. (Bom.), Mr. A. Salam, M.Sc., Lecturers.
- Chemistry** .. Dr. Muzaffaruddin Qureshi, M.Sc. (Punjab), Ph.D. (Berlin), Mr. Mahmud Ahmed Khan, B.Sc. (Alld.), Professors; Dr. Nazeer Ahmed Tahir, M.Sc., Ph.D. (Lond.), Reader; Mr. Illundal Sita Ram Rao, M.Sc. (Dacca), Mr. Khalilur Rahman, M.Sc., Mr. Syed Shah Muhammad, M.Sc., Mr. Sharfuddin, M.Sc. (Alig.), Lecturers.
- Economics** .. Mr. Habibur Rahman, M.A., LL.B. (Alig.), B.Sc. (Hons.) (Lond.), Reader (*on deputation*), Dr. A. I. Qureshi, M.A. (Ph.), M.Sc. (Lond.), Ph.D. (T.C.D.) (*Offg.*); Mr. M. A. Qadir, B.Sc. (Econ.) (Lond.), Mr. Akhtar Hussain, M.A., LL.B., L.T. (Alld.) and Mr. M. Nasir Ali, M.A. (Osm.), Lecturers; Mr. Imtiaz Husain Khan, B.Com. (Hons.) (Lond.), Junior Lecturer.
- English** .. Mr. Hosain Ali Khan, B.A. (Oxon.), Bar-at-Law, Mr. F. J. A. Harding, B.A., Dip. in Ed. (Oxon.) (*on deputation*), Mr. T. Virabhadraudu, M.A., L.T. (Madras), Professors; Mr. M. S. Doraiswamy, M.A., L.T. (Madras), B.A. (Hons.) (Oxon.), Reader; Mr. Mazhar Ali Khan, M.A. (Alig.), M.A. (Nagpur), M.A. (Dacca), B.A. (Hons.) (Oxon.), Mr. V. S. Krishnan, B.A. (Hons.) (Oxon.), Mr. J. J. Sebastian, M.A. (Nagpur), M.A. (Andhra), and Mr. Khawja Barkatullah, M.A. (Alig.), Lecturers; Dr. Syed Wahiduddin, B.A. Ph.D. (Marburg), Mr. K. N. Acharya, M.A. (Mysore), Junior Lecturers.
- History** .. Mr. Haroon Khan Sherwani, M.A., (Oxon.), Bar-at-Law, Mr. Muhammad Jamilur Rahman, M.A. (Punjab), Mr. K. C. Roy Saksena, M.A.

(Alld.), Professors; Dr. Yusuf Husain Khan, D.Litt. (Paris), Dr. Ishwarnath Topa, Ph.D. (Freiburg), Readers; Mr. Abdul Majid Siddiqi, M.A., Mr. Syed Sirajuddin Ahmed, M.A., Lecturers.

### Languages :

- |          |    |   |
|----------|----|---|
| Arabic   | .. | Dr. Abdul Haq, B.Litt., D.Phil. (Oxon.), Professor; Maulvi Syed Ibrahim, (Kamil), Reader; Mr. Saif bin Sultan Husain al Qaiti, M.A., LL.B., Maulvi Syed Nabi, Lecturers.  |
| French   | .. | Dr. Yusuf Husain, D.Litt. (Paris).  |
| German   | .. | Dr. Syed Jafar Hasan, Ph.D. (Heidelberg).   |
| Kanarese | .. | Mr. D. K. Bhimsen Rao, M.A. (Mysore), Lecturer, Mr. Ramchander Rao Patwari, M.A., Junior Lecturer.  |
| Marathi  | .. | Mr. R. M. Bhusari, M.A. (Calcutta), M.A. (Nag.), Lecturer; Mr. Narayan Rao Nandapurkar, M.A. (Bom.), Junior Lecturer; Mr. C. N. Joshi, M.A. (Bom.), Part-time Lecturer.   |
| Persian  | .. | Dr. Md. Nizamuddin, Ph.D. (Cantab.), Professor; Maulvi Abdul Hamid Khan, Dr. Qari Kalimullah Husaini, M.A., LL.B., Ph.D. (Lond.), Readers; Mr. Latif Ahmad Faruqi, M.A., LL.B., Lecturer.   |
| Sanskrit | .. | Dr. A. Sharma, M.A. (Alld.), D.Phil. (Munich), Reader; Pandit Vansidhar, Lecturer.  |
| Telugu   | .. | Mr. R. Subba Rao, Reader; Mr. Lakshminarayana, M.A. (Andhra), Junior Lecturer; Mr. Sita Ramayya, M.A. (Madras), Part-time Lecturer.   |
| Urdu     | .. | Dr. Gulam Mohiuddin Qadrizore, M.A. (Osm.), Ph.D. (Lond.), Professor; Dr. Syed Sajjad Husain, M.A. (Alld.), Ph.D. (Lond.), Reader; Mr. Abdul Qadir Sarwari, M.A., LL.B. (Osm.), Lecturer; Mr. Abdul Quyyum Khan Baqi, M.A. (Osm.), Junior Lecturer. |

**Law**

- .. Mr. Hosain Ali Mirza, Bar-at-Law, Professor; Mr. Mir Akbar Ali Musavi, B.A. (Hons.) (Bom.), LL.B. (Alig.), Reader; Dr. M. Hamidullah, ph.D. (Bonn.), D.Litt. (Paris), Lecturer; Mr. Kalimuddin Ansari, B.A., LL.B., Mr. Badruddin Khan, Bar-at-Law, Mr. Suryanarayana Rao, B.A., M.L. (Madras), and Pingal J. Reddy, B.Com. (Leeds), B.A., LL.B. (Cantab.), Bar-at-Law, Part-time Lecturers.

**Mathematics**

- .. Mr. Qazi Md. Husain, M.A. (Punjab), B.A., LL.B. (Cantab.), Mr. Kishen Chand, M.A. (Cantab.), Dr. M. Raziuddin Siddiqi, M.A. (Cantab.), ph.D. (Leipzig), Professors; Mr. Shaikh Barkat Ali, M.A., Reader; Mr. Khwaja Mohiuddin, M.A. (Madras), Mr. Venkatachari, M.A., Lecturers; Syed Abbas Hasan Razvi, M.A. (Osm.), Junior Lecturer.

**Philosophy**

- .. Dr. Khalifa Abdul Hakim, M.A., LL.B. (Punjab), ph.D. (Heidelberg), Professor; Dr. Mir Valiuddin, M.A. (Alig.), ph.D. (Lond.), Reader; Mr. M. Salahuddin, M.A. (Dacca), Mr. Shiv Mohan Lal, M.A. (Alig.), Mr. Khawja Abdul Quddus, M.A. (Osm.), Lecturers.

**Physics**

- .. Mr. Wahidur Rahman, B.Sc. (Cal.), Professor; Mr. Nasir Ahmad, M.A., B.Sc. (Alld.), Dr. Syed Mehdi Ali, ph.D., Readers; Mr. Syed Mohd. Yunus Wafaqani, B.A., M.Sc. (Dacca), Mr. Syed Ahmed Qadri, B.Sc. (Hons.) (Manch.) (*on deputation*), Dr. N. Ram Lal, B.A. (Osm.), M.Sc. (Alig.), ph.D. (Lond.), Mr. R. Satyanarayanan, B.A., A.R.C.S., B.Sc. (Hons.) (Lond.), Dr. Haji Ghulam Mohamed, M.Sc. (Osm.), D.Sc. (Alld.), Lecturers; Mr. Srinivas Iyengar, M.Sc. (Osm.), Dip. in Ed. (Osm.), Junior Lecturer.

**Sociology**

- .. Dr. Syed Jafar Hasan, ph.D. (Heidelberg), Reader.

Theology (Faculty)	Maulvi * Manazir Ahsan Gilani, Professor; Dr. Zahiruddin Ahmad, M.A., L.T., D.Litt. (Egypt), Maulvi Abdul Bari Nadvi, Readers; Maulvi Abdul Qadir Siddiqi, M.A., Maulvi Fazle Ahmed, Maulvi Syed Osman Jafari, Afzal-ul-Ulama, Maulvi Muhammad Ali, Maulvi Hosamuddin, Lecturers; Maulvi Yakoobur Rahman Saheb, Junior Lecturer.
Zoology	Dr. B. K. Das, D.Sc. (Lond.), Professor; Mr. Mohd. Rahimullah, M.Sc. ( <i>on deputation</i> ), Mr. M. Qadiruddin Khan, M.Sc., D.I.C. (Lond.) ( <i>Offg.</i> ), Mr. Satyanarayana Singh, M.Sc. (Alig.), Mr. Mohamad Mohsin, M.Sc., Lecturers.
Librarian	.. Mr. Yusufuddin Ahmad, B.A.
Senior Medical Officer	Dr. Bankat Chandra, M.B.B.S. (Bom.), M.R.C.P. (Lond.), M.R.C.S. (Eng.).
Junior Medical Officer	Dr. Narayan Rao, L.M.P. (Hyderabad).
Physical Instructor	Mr. Asad Ali, B.A.

#### MEDICAL COLLEGE

Dr. Brij Mohan Lal, B.A. (Mad.), M.B.B.S. (Bom.), M.Sc. (Lond.), *Principal*.

Anatomy	.. Dr. Brij Mohan Lal, B.A. (Madras), M.B.B.S. (Bom.), M.Sc. (Lond.), Professor; Dr. S. P. Sahgal, M.B.B.S. (Bom.), Reader; Dr. Syed Mukhtar Husain, B.Sc. (Alld.), M.B.B.S. (Lucknow), Lecturer.
Physiology	.. Dr. Syed Abdur Rahman, M.B., ch.B., D.T.M. & H. (Edin.), Professor; Dr. R. N. Abhyankar, M.B.B.S. (Bom.), Dr. Syed Mahdi Hasan, ph.D. (Gieson, Germany), Readers; Dr. Mir Mustafa Ali Zaidi, M.B.B.S., Lecturer.
Materia Medica and Pharmacology	Dr. S. W. Hardikar, M.D., M.R.C.P. (Edin.), Professor; Dr. Fazle Karim Khan, M.B.B.S. (Lko.), Reader; Mr. M. Ghaus Mohiuddin, M.Sc. (Alig.), Chemist.

<b>Pathology and Bacteriology</b>	Dr. M <sup>t</sup> Ali Husain, M.B.B.S. (Bom.), Ph.D. (Durham), Dr. M. Shah Nawaz, M.B.B.S. (Punjab), M.R.C.P. (Edin.), Professors; Mr. M. Nusrat Ali, M.B.B.S. (Lko.), Mr. Yusufuddin Ansari, M.B.B.S. (Osm.) ( <i>on deputation</i> ), and Mr. Mohiuddin Ahmad, M.B.B.S. (Osm.) ( <i>Offg.</i> ).
<b>Medicine and Clinical Medicine</b>	Dr. Bankat Chandra, M.B.B.S. (Bom.), M.R.C.P. (Lond.), M.R.C.S. (Eng.), Professor; Dr. M. K. Pandit, M.B.B.S. (Bom.), M.R.C.P. (Edin.), D.T.M. (Liverpool), T.D.D. (Wales), Lecturer.
<b>Surgery and Clinical Surgery</b>	Dr. Khursid Husain, M.B.B.S. (Bom.), M.B., Ch.B. (Edin.), Professor; Dr. M. Bahadur Khan, M.B.B.S. (Leeds), M.Sc. (Leeds), F.R.C.S. (Lond.), Dr. Munawar Ali, F.R.C.S.E., Lecturers.
<b>Gynæcology and Midwifery</b>	Dr. V. G. Borgeonkar, M.B.B.S. (Bom.), M.R.C.S. (Eng.), L.R.C.P. (Lond.), L.M. (Dub.), Professor; Dr. Vajihullah Alvi, L.R.C.P., L.R.C.S. (Edin.), & D.G.O., Lecturer.
<b>Ophthalmology</b>	Dr. Syed Abdur Rahim, B.A., M.B.B.S. (Bom.), D.O. (Lond.), Professor; Dr. P. Ramachander, M.R.C.S. (Eng.), L.R.C.P. (Lond.), D.O.M.S. (Lond.), Lecturer.
<b>Hygiene</b>	Dr. M. M. Siddiq Hosain, M.R.C.S. (Eng.), L.R.C.P. (Lond.), D.P.H. (Lond.), D.T.M. & H. (Lond.), D.O.M.S. (Lond.), Professor.
<b>Medical Jurisprudence</b>	Dr. Qasim Hosain, L.R.C.P., M.R.C.S. (England), Professor. Nine Part-time Lecturers.

### *Special Subjects Lecturers*

<b>Oto-rhino-Laryngology</b>	Dr. R. Venkat Rao, B.Sc., M.B.B.S. (Mys.), D.L.O. (Lond.).
<b>Skin Diseases</b>	Dr. B. G. Ranade, M.B.B.S. (Bombay).
<b>Orthopædics</b>	Dr. C. L. Modi, F.R.C.S. (Ireland).
<b>Infectious Diseases</b>	Dr. C. L. Ahluwalia, M.B.B.S. (Lahore), L.R.C.P., M.R.C.S. (Eng.), D.P.H. (Lond.), D.T.M. (Liverpool).

Mental Diseases	..	Dr. C. A. Sunder Raj, M.B.B.S. (Hong-kong), D.P.M. (Lond.).
Anæsthetics	..	Dr. Abdul Ali Khan, L.R.C.P. (Lond.), M.R.C.S. (Eng.).
Dentistry	..	Dr. C. J. Morris, L.D.Sc. (Cal.).
Radiology	..	Dr. S. A. Jabbar, M.B.B.S. (Bombay), D.M.R.E. (Cantab.).
Applied Anatomy	..	Dr. M. Munawer Ali, M.B.B.S. (Osm.), F.R.C.S. (Edin.).
Physiology :		
Bio-Chemistry	..	Dr. S. Mahdi Hasan, Ph.D. (Giessen University).
Pharmacology :		
Reader	..	Dr. M. Fazle Kareem Khan, M.B.B.S. (Lucknow).
Chemist	..	Dr. M. Ghouse Mohiuddin, B.A. (Osm.), M.Sc. (Aligarh).
Demonstrator	..	Dr. C. D. Nagruthnam, L.M. & S. (Hyd.).
Pathology :		
Cl. Medicine	..	Dr. M. Ahmed Mohiuddin, M.B.B.S., Lecturer.

## ENGINEERING COLLEGE

Mr. Hasan Latif, C.E. (King's College, London), M.I.E.E., M.I.E., <i>Principal.</i>		
Hydraulics	..	Dr. S. P. Raju, B.A. (Madras), B.E. (Poona), A.M.I.E. (Ind.), Dr. Ing. (Munich), Professor.
Surveying	..	Mr. P. K. Ghosh, B.Sc. (Cal.), M.A. (Cantab.), Professor.
Civil Engineering	..	Mr. Ziauddin Ansari, M.A. (Osm.), B.Sc. (Hons.) (Manchester), Professor; Mr. Abdus Samad Sowdagar, B.E. (Poona), A.M.I.E., M.R.San.I., Reader.
Drawing	..	Mr. Md. Hafizullah, B.Sc. (Alig.), B.Sc. (Eng.) (Rangoon), Reader.
Applied Mechanics	..	<i>Vacant.</i>
Geology	..	Mr. S. M. Abbas, B.Sc. (Punjab). Reader; Mr. Ahmaduddin, B.A. (Osm.), B.Sc. (Manchester), Lecturer.



Mechanical Engineering	Mr. Abid Ali, B.Sc. (Madras), B.Sc. (Hons.) (Lond.), Reader; Mr. M. Abdulla Hasan, B.Sc. (Alld.), Superintendent, College Workshop ( <i>on deputation</i> ).
Electro-technics ..	Mr. Syed Abdul Qadir, B.Sc. (Hons.) (Manchester) ( <i>Part-time</i> ); Mr. V. M. Gadgil, B.Sc. (Hons.) (Manchester), Lecturer.
Subordinate Classes	Mr. Muhd. Muipuddin Khan, C.E. (Mad.), Mr. Syed Ghulam Rasool, Lecturers.

*Part-Time Lecturers*

Irrigation ..	Mr. Syed Md. Yunus, B.Sc. (Manch.).
Architecture ..	Mr. Syed Aziz Ali, A.R.I.B.S. (Lond.).
Town Planning ..	Mr. Fayazuddin, B.E.
Railway Engineering	Mr. Mahmood Alam, B.A. (Osm.), B.Sc. (Hons.) (Manch.).
Accounts & P.W.D. Procedure	Mr. Zaheeruddin Ahmad, M.A. (Alig.), H.C.S.
Sanitary Engineering	Mr. S. K. Iyer.
Aero-engines:	
Theory & Design	Mr. P. M. Reddy, M.I.M.E.

## TRAINING COLLEGE

Mr. Sajjad Mirza, M.A. (Cantab.), C.T. (Lond.), *Principal*.

Psychology, Principles of Education and Child Education	Mr. Malik Sardar Ali, B.A., B.T. (Dacca), Reader.
History of Education, Comparative Education and Method of Teaching History	Mr. Mir Ahmad Ali Khan, M.A., M.Ed. (Leeds), Bar-at-Law, Reader.
School Organization	Dr. D. D. Shenderker, B.A., B.T. (Dacca), T.D. (Lond.), Ph.D. (Lond.), Lecturer. Seven Part-Time Lecturers.

## WOMEN'S COLLEGE

Begum Zain Yar Jung, B.A. (Hons.) (Cantab.), *Principal*.

English	..	Miss Lilamani Naidu, B.A. (Oxon.), Mrs. Douglas Pulleyne, and Miss Zohra Begum, B.A., M.Ed. (Leeds), Lecturers; Mrs. Abid Husain, M.A. (Osm.), Junior Lecturer.
Economics and History		Mrs. Gibbs, B.A. (Mysore), Reader, Miss Salamat-un-Nisa Begum, B.A., Miss Muktabai Subba Rao, B.A. (Hons.) (Madras), Junior Lecturers.
Chemistry	..	Mrs. Sundaram, B.Sc. (Lucknow), Lecturer; Miss Rashida Reporter, M.Sc., Junior Lecturer.
Botany	..	Mahbub-un-Nisa Begum, M.Sc., Lecturer.
Zoology	..	Badr-un-Nisa Begum, M.Sc. (Osm.), Lecturer.
Physics	..	Miss E. Plowman, M.Sc. (Osm.), Lecturer.
Arabic and Theology		Jafari Begum, Lecturer.
Persian	..	Rabab Khanum, Lecturer; Zohra Khanum, B.A., Junior Lecturer.
Urdu and Morals	..	Jahan Banu Begum, M.A. (Osm.), Junior Lecturer.
Domestic Science	..	Mrs. Navab Ali Khan, Diploma of St. Aque's Training College, Harrogate, Junior Lecturer.
Twenty-three Part-Time Lecturers.		

## CITY INTERMEDIATE COLLEGE

Mr. Syed Muhammad Azam, M.A. (Cantab.), B.Sc. (Hons.) (Lond.), F.C.S., E.E., *Principal*.

English	..	Mr. Abu Zafar Abdul Wahid, M.A. (Alig.), Mr. Ghulam Muhammad Ali, M.A. (Madras) ( <i>Acting</i> ), Lecturers.
English History	..	Mr. Khwaja Muniruddin, M.A., Lecturer.
History & Economics		Mr. Mir Mahmud Ali, M.A., Lecturer.
Mathematics	..	Mr. V. N. Patwari, M.A., Lecturer.

Physics	..	Mr. Muhammad Ahmad Osmani, M.Sc. (Alig.), Lecturer.
Chemistry	..	Mr. Ahmad bin Abdulla, B.A., Lecturer.
Urdu	..	Mr. Syed Mohammad, M.A. (Osm.). Four Part-Time Lecturers.

## AURANGABAD INTERMEDIATE COLLEGE

*Vacant, Principal.*

English	..	Mr. Ghulam Gilani Ahmad, M.A. (Alig.) Acting Lecturer; Mr. Kameswar Rao, M.A. (Nagpur), Acting Junior Lecturer.
Urdu and Ethics	..	Mr. Ghulam Tayyab, B.A. (Osm.), L.T. (Dacca), Lecturer.
Persian and Arabic		Mr. Agha Muhammad Taqi, Lecturer.
Sanskrit and Marathi		Mr. Bhaskar Govind Shastri, Lecturer.
Economics	..	Mr. G. R. Thatte, M.A. (Alig.), Lecturer.
English History & Indian History		Mr. Muhammad Ibrahim, M.A. (Alig.), Lecturer.
Physics	..	Mr. Azizur Rahman, M.Sc. (Dacca), Lecturer.
Chemistry	..	Mr. P. N. Srikishen, M.Sc. (Alig.), Lecturer.
Mathematics	..	Mr. Muhammad Ahmad, B.A. (Madras), M.A. (Alig.), Lecturer. Three Part-Time Lecturers.

## WARANGAL INTERMEDIATE COLLEGE

Mr. Ahmad Husain Khan, B.A. (Madras), *Principal.*

English	..	Mr. P. V. R. Sebastian, B.A. (Madras), Reader; Mr. Mahmood Husain, M.A., Junior Lecturer.
History	..	Mr. Zainulabedin, M.A., B.T. (Alig.), Lecturer.
Mathematics	..	Mr. A. V. Gopal Rao, M.A. (Madras), Lecturer.
Chemistry	..	Mr. Inayat Khan, M.Sc., Lecturer.
Physics	..	Mr. Muhammad Zakiuddin, M.Sc., Lecturer.
Urdu and Persian	..	Mr. Syed Akhtar Husain, M.A., Junior Lecturer. Five Part-Time Lecturers.

## GULBURGA INTERMEDIATE COLLEGE

Mr. Syed Zulfaqar Ali Haqqani, B.A., B.T., *Principal*.

English	..	Mr. Malikarjun Rao, M.A., Lecturer.
History	..	Mr. Saiduz Zaman, M.A. (Alig.), Lecturer.
Chemistry	..	Mr. Md. Vazir Ahmad Qureshi, M.sc. (Alig.), Lecturer.
Physics	..	Mr. Md. Fazluddin, M.sc., Lecturer.
Mathematics	..	Mr. Akbar Ali, M.A., Lecturer ( <i>on study leave</i> ), Mr. Raghavender Rao, M.A. (Osm.) ( <i>Offg.</i> ).
Eight Part-Time Lecturers.		

## TRANSLATION BUREAU

Curator	..	Mr. Md. Elias Burney, M.A., LL.B. (Alig.).
Economics	..	Mr. Rashid Ahmad, B.A., Translator ( <i>on deputation</i> ).
Philosophy	..	Mr. Ehsan Ahmad, B.A., Translator.
Mathematics	..	Mr. Naziruddin, M.A., Translator.
Medicine	..	Dr. Muhd. Osman Khan, L.M. & S., Dr. Ghulam Dastagir, M.B.B.S., Dr. Joseph Antony Muhd. Husain, M.B.B.S.
Botany	..	Mr. Abdul Wahid, M.sc. (Osm.).
Zoology	..	Mr. M. A. R. Khan, M.sc. (Osm.).
Physics	..	Mr. Murtanje Rao, M.sc. (Osm.).
Chemistry	..	Mr. Asad Ali, M.sc.

## NIZAMIA OBSERVATORY

Mr. T. P. Bhaskaran, M.A., F.R.A.S., *Director*.

## Number of Students in the University

Arts and Science	..	..	2,081
Theology	..	..	64
Law	..	..	124
Medicine	..	..	175
Engineering	..	..	64
Education	..	..	28

**Number of Successful Students in the Examinations, 1941**

Matriculation	(Arts)	..	..	..	1,105
Do.	(Theology)	..	..	..	61
Intermediate	(Arts and Science)	..	..	..	256
Do.	(Theology)	..	..	..	6
B.A.	(Arts)	..	..	..	96
Do.	(Theology)	..	..	..	3
B.Sc.	..	..	..	..	42
M.A.	(Arts) Previous	..	..	..	13
Do.	(Arts) Final	..	..	..	7
Do.	(Arts)	..	..	..	8
Do.	(Theology) Previous	..	..	..	2
Do.	(Theology) Final	..	..	..	2
M.Sc.	(Previous)	..	..	..	11
Do.	(Final)	..	..	..	11
L.L.B.	(Previous)	..	..	..	42
Do.	(Final)	..	..	..	42
M.B.B.S.	(First Professional)	..	..	..	25
Do.	(Second Professional)	..	..	..	32
Do.	(Third Professional)	..	..	..	16
Do.	(Fourth Professional)	..	..	..	18
B.E.	(Part I Examination)	..	..	..	9
Do.	(Part II Examination)	..	..	..	10
Diploma in Education	..	..	..	..	29
M.F.D.	..	..	..	..	6

**Scholarships and Medals**

The following scholarships are awarded on the results of the University Examinations:—

**ARTS AND SCIENCE, FACULTIES**

Intermediate Classes	One Scholarship of Rs. 20 per mensem and ten of Rs. 15 per mensem.
B.A. Classes	.. One Scholarship of Rs. 25 per mensem, two of Rs. 20 and twenty-two of Rs. 18 per mensem.
M.A. Classes	.. Two Scholarships of Rs. 40 per mensem and ten of Rs. 30 per mensem.
Fellowships	.. Four Fellowships of Rs. 150 per mensem each for such persons as have already secured the Doctorate for research. Six Research scholarships of Rs. 50

per mensem each for deserving students working for the PH.D. Three Scholarships of Rs. 50 per mensem each for Telugu, Marathi and Kanarese for Research workers in these languages.

Taimuri Scholarship Rs. 50 per mensem for a student belonging to the ex-Royal family of Delhi.

#### FACULTY OF THEOLOGY

Intermediate Classes One of Rs. 20 and two of Rs. 15.  
 B.A. Classes .. One of Rs. 25, one of Rs. 20 and five of Rs. 18.  
 M.A. Classes .. One of Rs. 40.

In addition to the above, there are the following bursaries:—

In the Faculties of Arts and Science: 20 in the Intermediate Classes, 12 in the B.A. Classes and 8 in the M.A. Class. In the Faculty of Theology: 7 in the Intermediate Classes, 3 in the B.A. Classes and one in the M.A. Class. Their value varies from Rs. 6 per mensem to Rs. 20.

There are Gold Medals for candidates standing first in the B.A. (Arts and Theology), B.Sc., M.B.B.S., B.E. and DIP. IN ED. Examinations; for girl candidates standing first in the Intermediate and B.A. Examinations and for the candidate standing first in Anatomy in the First M.B.B.S. Examination.

#### FACULTY OF LAW

One Scholarship of Rs. 30 and two of Rs. 25 per mensem to the LL.B. (Final) students.

#### FACULTY OF MEDICINE

Rs. 9,840 per annum to be distributed at the discretion of the Principal.

#### FACULTY OF ENGINEERING

1st year	2	Scholarships of Rs. 30 each
	1	" " 25 "
2nd year	2	" " 30 "
	1	" " 25 "
3rd year	1	" " 35 "
	1	" " 30 "
	1	" " 25 "
4th year	One	Apprenticeship of Rs. 150 p.m. and six of Rs. 50 p.m. each.

### Library, Museum, Laboratories, etc.

The University Library, which contains 22,245 English and 26,350 Oriental books, is being constantly augmented. There is a small Library attached to the Translation Bureau, containing 4,602 books. There are Seminar Libraries attached to each department of study. The Staff of the University has also access to the Government Asifia Library which is very rich in Arabic and Persian MSS., besides containing a large and valuable collection of State archives relating to the history of Central and Southern India known as the *Daftar-i-Diwani* and *Daftar-i-Mal* in the Finance Office.

The University College has well-equipped Physical, Chemical and Biological Laboratories.

### NIZAMIAH OBSERVATORY

The Observatory which was established in 1908 by a *Firman* of His Exalted Highness the late Nizam, was transferred to the control of the Osmania University in 1919. The principal equipment consists of two equatorial telescopes, an 8-inch photographic and a 15-inch visual refractor (both presented by the late Nawab Zafar Jung Bahadur) together with a small transit instrument and Chronograph and some other miscellaneous apparatus. The Observatory is one of the institutions participating in the great international undertaking of the *carte de ciel* and has completed the measuring of the photographs in the section allotted to it, viz., Decl.  $-170^{\circ}$  to  $-23^{\circ}$  and is now engaged in the Catalogue of the section  $36^{\circ}$  to  $39^{\circ}$ . The 15-inch telescope, erected about ten years ago, is used for visual observations, especially, for observing systematically variable stars with faint minima. A good working library has been formed, consisting chiefly, of astronomical books and periodicals and standard publications of observatories received by way of exchange. The principal publications of the Nizamiah Observatory consist of ten volumes of the Hyderabad Astrographic Catalogue and a number of short papers in the leading Astronomical Journals. The Observatory is also equipped with two Milne Shaw Seismographs for recording earthquakes and the readings of the seismograms are forwarded to Oxford for inclusion in the International Seismological Summary. There is, in addition, a Meteorological Observatory as well as a pilot balloon station, the observations being taken in co-operation with the Meteorological Department of the Government of India.

### Provision for Research

The University Library and Laboratories are well equipped and provide ample facilities for original work in many subjects such as, History, Philosophy, Persian, Arabic, Urdu, Telugu, Marathi, Kanarese, Sanskrit, Theology, Chemistry, Physics, Botany and Zoology. A candidate has to submit a thesis for his M.A. or M.Sc. degree. The degree of Ph.D. has been instituted in the Faculties of Arts, Science and Theology. Research Scholarships of the value of Rs. 50 per mensem are granted to deserving students, working for Ph.D. degrees. Special Scholarships are set apart for Research in Telugu, Marathi and Kanarese. The Research Journal of the Osmania University, issued once a year, publishes the original work carried out by members of the staff and the research students.

### Associations in the University

The following are the Associations attached to the University :—

1. Osmania University Association.
2. Students' Union.
3. Historical Association.
4. Scientific Association.
5. Economic Association.
6. Law Society.
7. Urdu Association.
8. Kanarese Association.
9. Telugu Association.
10. Marathi Association.
11. Arabic Association.
12. Theology Association.
13. Chemistry Association.
14. Engineering Association.

### Residence and Cost of Living

The University aims at providing residential accommodation for its students. Two double-storeyed Hostels have been recently constructed providing accommodation for 300 students, while there is a temporary Hostel in which 100 students can live in comfort. These Hostels which are lighted with electricity and are provided with modern sanitary conveniences are now entirely full. In addition to the College fees, the boarders



pay an inclusive charge of Rs. 19 per mensem, which covers dining hall establishment, light, water and other charges. No charge is made for rent, medical assistance or for medicines. Students of all communities live amicably together, as no Hostel is reserved for a particular community. Each Hostel is managed by a Warden.

### Budget

1351 FASLI—(October 1941 to October 1942)

			Rs.
1.	Registrar's Office	.. ..	1,91,476
2.	University College	... ..	8,48,745
3.	Medical College	.. ..	2,26,931
4.	Engineering College	.. ..	2,03,667
5.	Training College	.. ..	36,964
6.	College for Women	.. ..	1,26,931
7.	City Intermediate College	.. ..	69,413
8.	Aurangabad Intermediate College	.. ..	58,906
9.	Warangal Intermediate College	.. ..	36,402
10.	Gulbarga Intermediate College	.. ..	41,492
11.	Translation Bureau	.. ..	1,56,705
12.	University Press	.. ..	1,19,914
13.	Nizamiah Observatory	.. ..	45,259
TOTAL O.S. Rs.			<u>21,62,006</u>

NOTE.—British Rs. 100 are equal to O.S. Rs. 116-10-8.

There is no Provident Fund as all the posts are pensionable from General Revenues. All servants of the University are entitled after 25 years' continuous and approved service to full pension which is one-half of the average monthly salary for the last three years of service.

### Publication and Extension Work

Nearly 291 volumes have been translated and published on subjects of study in the University.

A sum of Rs. 5,000 has been provided in the Budget for lectures by distinguished European and Indian scholars. A number of extension lectures are also delivered by members of the University Staff on scientific and literary subjects.

### **The Dairat-ul-Maarif**

The Dairat-ul-Maarif was founded by the late Nawab Imadul Mulk Bahadur (Syed Husain Bilgrami, c.s.i.) and the late Mulla Abdul Qayyum Sahib in 1886 for the publication of rare books in Arabic. It commenced its work in 1890 with a grant of Rs. 500 per mensem from His Exalted Highness' Government. Subsequently in 1920, an endowment of one lakh of rupees was made over to the Institution and in 1922, His Exalted Highness was graciously pleased to sanction an additional grant of Rs. 4 lakhs and this total endowment of Rs. 5 lakhs brings an annual income of Rs. 30,000.

The Institution was placed under the control of the University on the death of Nawab Imadul Mulk Bahadur on the 7th May 1926 (24th Zikadah 1344 Hijri). The Hon'ble Nawab Mahdi Yar Jung Bahadur, M.A. (Oxon.), Vice-Chancellor, Osmania University, is now the Chairman of the Executive Committee, with whom the management rests, and Mr. Syed Mohiuddin, B.A., Bar-at-Law, is the Secretary. This Committee is helped by a Literary Committee which assists it in selecting books for publication, etc.; the staff consists of a Superintendent and six Arabic Scholars who edit the Texts and correct proofs. They are helped in their work by the noted European Orientalist, Mr. Krenkew, who secures for the Institution copies of rare books in the British Museum and other European Libraries, besides correcting Texts, reading proofs, etc. The total number of Arabic books published by this Institution is 142 but some of them are in four to twelve volumes. Its publications are in great demand not only in India but in Egypt, Arabia, Afghanistan and Europe.

### **Women's Education**

Women are admitted as private students to the Intermediate and B.A. Examinations in all subjects and to the M.A. Examinations in Arabic, Persian and Urdu only. The University maintains a Women's College which has 177 students on its rolls.

### **Students Information Bureau**

The University has no Students' Information Bureau, its functions devolving on the Director of Public Instruction and the Committee for European Scholarships. The Adviser for Hyderabad students in England is Mr. B. C. McEwen, B.Sc. (Lond.).

### **Provision for Safeguarding Health, Discipline, etc.**

A fully qualified Medical Officer is in medical charge of the Hostels; he also conducts periodical medical examinations of the students. The Principals of Colleges are supreme in matters of discipline and have power to rusticate or otherwise punish the students.

### **Courses of Study, Examinations and Degrees**

The University offers in the Faculties of Arts and Theology the Degrees of B.A., M.A. and Ph.D., in the Faculty of Science the Degrees of B.Sc., M.Sc. and Ph.D., in the Faculty of Law the Degree of LL.B., in the Faculty of Medicine the Degree of M.B.B.S., in the Faculty of Engineering the Degree of B.E. (and Overseer's Certificate examination under the control of the Engineering College), and in the Faculty of Education the Diploma in Education and the degree of M.Ed.

Special provision is made for the following classes of persons for admission to the Intermediate and B.A. Examinations of the University as private candidates:—

1. Inspecting Officers of the State Educational Department and whole-time teachers employed in Educational institutions, of three years' standing.
2. Assistants serving in a University College.
3. Women.

### **ADMISSION TO THE UNIVERSITY**

The Intermediate stage of education is part of the course for the Degree, and only those who have passed the Matriculation Examination of the University or an equivalent recognized examination are admitted to the course.

### **COURSES OF STUDY AND DEGREES**

#### **ARTS**

*The Matriculation Examination.*—The course extends over three years. Private candidates are also admitted, but they are required to pass a test examination, held at a Government High School, before appearing at the University Examination. The subjects for study and examination are as follows:—

#### **A. COMPULSORY**

1. English (two papers).
2. Urdu (two papers).
3. Elementary Mathematics (two papers), or Arithmetic (for girls only).

4. Elementary Science (one paper), or Domestic Science (for girls only).
5. Indian History and General Geography of the World (two papers).
6. Theology or Morals (one paper).

### B. OPTIONAL

One of the following subjects:—

1. A Classical Language.
2. A Modern Language.
3. English History.
4. Algebra and Geometry.\*
5. Biology.
6. Commerce.
7. Islamic History.

### C. SCHOOL SUBJECTS†

1. Drawing.
2. Physical Training.
3. Manual Training.

Successful candidates who obtain 60 per cent. of the aggregate marks are placed in the First Division. For a pass in the Second Class, candidates should secure 35 per cent. in English and in any three subjects and 25 per cent. in the remaining two, and an aggregate of 35 per cent. Those who obtain 30 per cent. in English and in three of the subjects and 25 per cent. in the remaining two, and an aggregate of 30 per cent. are placed in the Third Class.

If a candidate fails to pass in the examination, he may reappear at any subsequent examination or examinations in those subjects only in which he has failed to secure 30 per cent. marks. He will be declared to have passed the examination under the compartment system if he secures 30 per cent. marks in each subject, but will not be eligible for admission to the University. Such candidates will be exempted from attendance and appearing at the test examination.

Girl candidates, however, who pass under this system will be eligible for admission to the College till 1352 F. (1943).

*The Intermediate Examination.*—The course extends over two years after Matriculation. The subjects for study and

\* Only those candidates will be admitted to the Intermediate Mathematics classes, who have taken Algebra and Geometry as their optional subject.

† There will be no University examination in these subjects but the teaching will be compulsory.

examination are: (1) English (three papers), (2) Muslim Theology or, for non-Hanafis and non-Muslims, Morals (one paper), (3) Any one of the following groups of three subjects (two papers in each subject).

(1) Any two of the following languages:—Arabic, Persian, Sanskrit, Urdu, Marathi, Telugu, Kanarese and one of the following: English History, Indian History, Islamic History, Economics, Sociology.

(2) English History, and European History (Ancient, Mediæval or Modern) or Islamic History of Indian History and one of the following: Arabic, Persian, Sanskrit, Urdu, Marathi, Telugu and Kanarese, Economics, Sociology.

(3) Logic, Psychology and a Language or Economics or Sociology.

\* (4) (a) Domestic Science, (b) One language or Psychology, (c) One History or Economics.

(5) Physics, Chemistry and Biology.

(6) Physics, Chemistry and Geology.

(7) Physics, Chemistry and Mathematics.

(8) Physics, Mathematics and Geology.

(9) Chemistry, Biology and Geology.

\* (10) Physics, Chemistry and Domestic Science.

\* (11) Chemistry, Biology and Domestic Science.

*Note:—*

(1) Candidates taking group 1 will be allowed to take School of Languages at their B.A. Examination.

(2) Candidates taking group 2 will be allowed to take School of History at their B.A. Examination.

(3) Only those candidates will be allowed to take Philosophy for their B.A. Examination who have offered group 3 for their Intermediate Examination.

(4) Only those candidates will be allowed to take up History of Indian Culture at their B.A. Examination who have offered Indian History under group 2 for their Intermediate Examination.

(5) Only those candidates will be allowed to take up School of Economics for their B.A. Examination who have offered Economics for their Intermediate Examination.

In the case of subjects Physics, Chemistry, Biology, Geology and Domestic Science, there is a practical examination in addition to the written examination.

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\* Only girls will offer these combinations.

For a pass, not less than 33 per cent. must be obtained in each subject but a candidate is declared passed if he secures not less than 30 per cent. in one subject only and 40 per cent. in the aggregate. Those who obtain 60 per cent. in the aggregate are placed in the First Class, and those who get 45 per cent. or more in the Second Class.

For the purpose of the Compartment System the examination is divided into the following two groups:—

1. English.
2. Optional Subjects.

A candidate passing in any one of these groups is exempted from appearing in that group at a subsequent examination, provided that he has secured not less than 35 per cent. of the marks in the aggregate and that in the group in which he fails he makes an aggregate of not less than 25 per cent.

*Bachelor of Arts (B.A.).*—The course of study extends over two years after the Intermediate Examination of this University or an examination accepted as equivalent thereto. The subjects for study and examination are:—(1) English (four papers), (2) Muslim Theology or, for non-Hanafis and non-Muslims, Morals (one paper), (3) One of the following subjects:—

#### “A”

*Any two of the following languages:* Arabic, Persian with Elementary Arabic, Sanskrit, Latin, or Greek, and Urdu with Hindi Bhasha, Telugu, Marathi, Kanarese, Tamil, French and German (three papers in each language).

#### “B”

*Mathematics*—6 papers.

- Paper 1. Algebra, Theory of Equations, Trigonometry, and Pure Geometry.
- .. 2. Analytical Geometry of two and of three dimensions and Differential Calculus.
- .. 3. Integral Calculus and Differential Equations.
- .. 4. Statics and Hydrostatics.
- .. 5. Graphical Statics and Dynamics.
- .. 6. Astronomy and Astrophysics.

#### “C”

*History*—6 papers.

*Principal:*—

- Paper 1. General Historical Essay.
- .. 2. Indian History:—  
One of the following periods—  
(i) Ancient up to 1206.  
(ii) Mediæval, 1206 to 1765.  
(iii) Modern, 1765 onwards up to the present day.

## Paper 3. General containing:—

- A. History of the Deccan, covering the period of Indian History taken by the candidate.
- B. Elements of the Cultural History of India with reference to the period of Indian History taken by the candidate.
- C. Constitutional History of Modern India.

## Paper 4. One of the following:—

- Select period of Islamic History.
- Select period of European History.
- English Constitutional History.
- History of Indian Culture.

*Subsidiary.*—

Paper 5. Political Science (Theoretical and Comparative).

Paper 6. Economics or Sociology (Theoretical and Applied).

*N.B.*—(1) No student will be allowed to go up for his B.A. Examination unless he has taken Economics in his Intermediate Examination.

- (2) Students will not be allowed to take the same subject which they took in the Intermediate; in other words, the students who took Sociology or Languages in the Intermediate shall take Economics and the students who took Economics will take Sociology.

Candidates will be expected to answer questions on Historical Geography.

**"D"***Economics*—6 papers.

Paper 1. Principles of Economics including a brief description of the famous schools of economic thought.

Paper 2. Currency, Banking, Foreign Exchange and Public Finance.

Paper 3. Economic History of India (since the death of Akbar to the end of the 19th century) or Economic History of England (since the Industrial Revolution).

Paper 4. Indian Economic Problems (Agricultural Economics and Co-operation).

Paper 5. Politics or Sociology.

Paper 6. Industry, Trade and Transport Problems of India.

## "E"

*Philosophy*—6 papers.

General Philosophy:—

Paper 1. Nature, Schools and Problems of Philosophy.

Paper 2. A brief sketch of the History of Philosophy together with a special study of an original work of any of the following Philosophers: Descartes, Berkeley or David Hume.

Oriental Philosophy:—

Paper 3. Hindu Philosophy.

Paper 4. Outlines of Islamic Philosophy, Kalam and Sufism.

Psychology:—

Paper 5. Elements of Psychology with Allied Physiology.

Ethics:—

Paper 6. A brief study of Theoretical and Practical Ethics.

For a pass, 33 per cent. of marks are required in each subject.

Successful candidates who obtain 60 per cent. or more are placed in the First Division and those obtaining 45 per cent. or more in the Second Division. Candidates securing an aggregate of 40 per cent. but failing either in English or in the selected subject provided the marks gained by them do not fall short of 25 per cent. will be allowed to appear only in the subject in which they fail.

*Master of Arts (M.A.).*—The course extends over two years subsequent to graduation and is open to graduates of this or of a recognised University. A candidate may offer one of the following subjects:—

(A) *English.*—There shall be 8 papers of 100 marks each and *viva voce*.

Paper 1. Part I: The development of the English Language from early to modern times; Part II: Chaucer.

.. 2. Shakespeare and the Elizabethan Drama.

.. 3. Spenser to Milton.

.. 4. Dryden to Johnson.

.. 5. The Age of Wordsworth.

.. 6. Victorian Literature.

.. 7. Contemporary Literature.

.. 8. Essay on a Literary Subject.



(B) *Arabic*.—

Previous Examination:—4 papers .. 400 marks

Paper 1. Poetry .. .. 100 „

„ 2. Prose .. .. 100 „

„ 3. Translation from Urdu into  
Arabic and Composition .. 100 „

Final Examination:—2 papers and a Thesis .. 400 „

Paper 1: History of Arabic Literature  
from Jahiliyat to present day .. 100 „

## Paper 2.—

(A) Hebrew, French or German Gram-  
mar and translation into Urdu of  
easy Hebrew, French or German  
passages .. .. 50 „

(B) Prose and Poetry (Modern) .. 50 „

Thesis and *viva voce* .. .. 200 „

(C) *Sanskrit*.—There shall be 8 papers of 100 marks each:—

Paper 1. Vedas.

„ 2. Poetry, Prose and Drama.

„ 3. Grammar and Prosody.

„ 4. Poetics.

„ 5. Comparative Philology with special reference to  
Sanskrit.

„ 6. History of Sanskrit Literature.

„ 7. Translation from Urdu into Sanskrit and *vice  
versa*.

„ 8. Essay in English or in Urdu on the subjects  
prescribed for the course.

(D) *Persian*.—There will be two examinations, Previous and Final. In the Previous there will be four papers as follows:—

Paper 1. Poetry (Classical).

„ 2. Prose (Classical).

„ 3. Essay in Persian on modern topics.

„ 4. Persian Rhetoric and Prosody and translation  
from Arabic into Urdu.

In the Final Examination there will be two papers as follows; and the candidates will also be required to submit a thesis:—

Paper 1. Literary History of Persia from the earliest  
times to the Mongols.

„ 2. Literary History of Persia from the Mongols to  
the present day.

(E) *Urdu*.—There will be two examinations, Previous and Final. In the Previous Examination there will be four papers as follows:—

- Paper 1. Old Urdu.
- .. 2. Poetry.
- .. 3. Prose.
- .. 4. Essay.

In the Final Examinations there will be two papers as follows: Paper 1—History of the Urdu Language and Literature and Philology; Paper 2—Hindi Bhasha. Candidates will also be required to submit a thesis or to edit a book.

(F) *Marathi*.—There shall be 8 papers of 100 marks each:—

- Paper 1. Ancient Poetry.
- .. 2. Mediæval and Modern Poetry.
- .. 3. Prose (Ancient and Modern).
- .. 4. Philology and History of Language.
- .. 5. History of Literature, Rhetoric and Prosody.
- .. 6. Essay.
- .. 7. Sanskrit Poetry and Drama.
- .. 8. Sanskrit Prose and Prakrita.

(G) *Telugu*.—There shall be 8 papers of 100 marks each:—

- Paper 1. History of the Language, Grammar and Philology.
- .. 2. History of Literature, Criticism, Prosody and Poetics.
- .. 3. History of Telugu People.
- .. 4. Poetry (Classical).
- .. 5. Poetry (Modern and Drama).
- .. 6. Prose.
- .. 7. Essay.
- .. 8. Special Author or Period.

(H) *Kannada*.—There shall be 8 papers of 100 marks each:—

- Paper 1. Jaina Literature.
- .. 2. Veerasaiva Literature.
- .. 3. Brahmana Literature.
- .. 4. Descriptive Grammar and the History of Kannada Language.
- .. 5. Poetics and Prosody with special reference to Kannada metre.
- .. 6. Criticism and History of Kannada Literature.
- .. 7. History of Karnataka and Kannada Epigraphy.
- .. 8. Essay.

(I) *Mathematics* (Nine papers):—

- Paper 1. Algebra, Theory of Equations; Plane Trigonometry; Differential Equations.
- „ 2. Pure Geometry; Analytical Geometry (Pure and Solid); Differential Geometry of Curves and Surfaces.
- „ 3. Calculus (Differential and Integral); Theory of Functions of a real variable.
- „ 4. Theory of Functions of a complex variable; Elliptic Functions excluding— $\theta$  Functions; Fourier Series.
- „ 5. Attractions; Electricity and Magnetism.
- „ 6. Analytical Statics of two and three dimensions; Dynamics of a particle; Rigid Dynamics in two dimensions only.
- „ 7. Hydrostatics including Capillarity; Hydrostatics excluding Vortex Motion and Sound.
- „ 8. Spherical Trigonometry; Spherical Astronomy. Optics.
- „ 9. Problem and Essay paper consisting of two sections. In the first section at least two problems to be solved and in the other section not more than two essays to be written.

(J) *History*.—

## Previous Examination—

- Paper 1. Early Political Institutions up to 1500 or Later Political Institutions from 1500 to the present day (100 marks).
- Paper 2. \*Early Political Theories, upto 1500 or later Political Theories from 1500 to the present day (100 marks).
- Paper 3. } Intensive study of two of the following:—  
 „ 4. } (100 marks each).  
       (i) A period of Indian History.  
       (ii) A period of Islamic History.  
       (iii) A period of Modern European History.  
       (iv) A period of English Constitutional History.

## Final Examination—

- Paper 1. General Historical Essay (100 marks).
- „ 2. (a) Special Subject in Comparative Politics.

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\* Students shall study the Political Theories of only that period the Political Institutions of which they have selected for study in Paper 1 above.

(b) Special subject in Political Theories (25 marks each).

Thesis (200 marks).

*Viva voce* in the subjects taken in Parts I and II (50 marks).

*Viva voce* in the Language offered (50 marks).

*N.B.*—No candidate will be deemed to have passed the Final M.A. Examination in History who does not obtain at least 30 per cent. of the aggregate number of marks in Paper II of that Examination.

### (K) *Philosophy*.—

Previous Examination—

(a) Compulsory.

1. One paper on Oriental Philosophy, either Indian or Islamic.
2. One special Philosopher from among the Western Thinkers.
3. Metaphysics with special reference to contemporary thought.
4. Essay.

(b) *Optional*.

Any two of the following:—

1. Logic and Epistemology.
2. Æsthetics.
3. Philosophy of Religion.
4. Ethics and Political Philosophy.
5. Psychology.

Final Examination—

1. A thesis of not less than 10,000 words on any subject of Philosophy previously approved by the Board of Studies.
2. Two papers on subjects allied to the subject of the Thesis.
3. *Viva voce*.

### (L) *Economics*.—

Previous Examination: Four papers .. 400 marks

Paper 1.	Advanced Principles of Economics	100	„
„ 2.	History of Economic Thought	100	„
„ 3.	Any one of the following:	100	„
	(a) Sociology.		
	(b) Politics.		
	(c) Economic History of U.S.A., Germany since 1815 and Japan since 1865.		

Paper 4.	Monetary Problems, Central Banking and Intermediate Trade	..	100 marks
Final Examination:—	..	..	500 ..
Paper 1.	Indian Economic Problems	..	100 ..
„ 2.	Essay	..	100 ..
	Thesis	..	200 ..
	<i>Viva voce</i>	..	100 ..

A candidate must obtain 40 per cent. of the marks in the aggregate for a pass. No minimum marks are required in each paper but if, in any paper, a candidate obtains less than 20 per cent. those marks are not included in his aggregate. A First Class is obtained by scoring 65 per cent. and a Second Class by scoring 50 per cent. of the aggregate marks.

*Doctor of Philosophy in Arts (Ph.D.).*—The course extends over three years and is opened to the candidates who have passed the M.A. Examination of this or any other recognised university in First or Second Class. The candidates are required to submit a thesis based on original research and to undergo a *viva voce* and written examination, if necessary.

*Diploma in German and French.*—The University provides for the teaching of French and German languages, and awards a Diploma after a course of two years. The classes are held out of the University hours. They are open to students, as well as outsiders. The fee for the teaching of the languages for outsiders is Re. 1 and no fee is charged from the University students.

The examination consists of two written and one oral examination as detailed below:—

Paper 1.	Prose, Text and Grammar	..	100 marks
„ 2.	Translation from the language selected into Urdu language and <i>vice versa</i>	75	„
Oral Examination	..	..	25 ..

In order to pass the examination, the candidates are required to secure 33 per cent. of the full marks in the written as well as in the oral examination, and classes are arranged on the same basis as at other university examinations.

## SCIENCE

*Bachelor of Science (B.Sc.).*—The course of study extends over two years after the Intermediate Examination of this University or an examination accepted as equivalent thereto. The subjects for examination are as follows:—

- (1) English (two papers).
- (2) One of the following groups:—
  - (a) Physics as main with Mathematics and Chemistry as subsidiary.
  - (b) Chemistry as main with Physics and Mathematics or Botany and Zoology or Physics and Geology or Botany and Geology as subsidiary.
  - (c) Mathematics as main with Physics and Chemistry as subsidiary.
  - (d) Botany as main with Zoology and Chemistry or Geology and Chemistry as subsidiary.
  - (e) Zoology as main with Botany and Chemistry or Botany and Geology as subsidiary.

Only girl candidates can take up Domestic Science as subsidiary subject with Physics, Chemistry, Botany and Zoology as main.

*Physics, taken as main subject:—*

	Marks
<b>Theory—</b>	
Paper 1. General Physics, Properties of Matter and Sound .. ..	90
„ 2. Heat and Light .. ..	90
„ 3. Electricity and Magnetism .. ..	90
<b>Practical—</b>	
Paper 1. Properties of Matter, Heat and Sound ..	65
„ 2. Light, Magnetism and Electricity ..	65

*Physics, taken as subsidiary subject:—*

<b>Theory—</b>	
Paper 1. General Physics, Properties of Matter, Heat and Sound .. ..	75
„ 2. Light, Magnetism and Electricity .. ..	75
<b>Practical</b> .. ..	50

*Chemistry, taken as main subject:—*

<b>Theory—</b>	
Paper 1. Inorganic .. ..	90
„ 2. Organic .. ..	90
„ 3. Physical Chemistry .. ..	90
<b>Practical—</b>	
Paper 1. Qualitative and Gravimetric Analysis ..	65
„ 2. Volumetric Analysis and Organic Preparation .. ..	65
„ 3. For the record of work in Technical Laboratories .. ..	20

Marks

*Chemistry, taken as subsidiary subject:—*

## Theory—

Paper 1.	Inorganic and Physical Chemistry	..	70
„ 2.	Organic and Physical Chemistry	..	70
Practical	.. .. .	..	60

*Mathematics, taken as main subject:—*

Paper 1.	Algebra, Theory of Equations and Trigonometry	.. ..	80
„ 2.	Differential Calculus and Analytical Geometry of two and three dimensions	..	80
„ 3.	Integral Calculus and Differential Equations	..	80
„ 4.	Statistics and Hydrostatics	..	80
„ 5.	Dynamics and Astronomy	..	80

*Mathematics, taken as subsidiary subject:—*

Paper 1.	Algebra, Trigonometry and Analytical Geometry	.. ..	70
„ 2.	Calculus and Differential Equations	..	70
„ 3.	Statics, Dynamics and Hydrostatics	..	60

*Botany, taken as main subject:—*

## Theory—

Paper 1.	Thallophyta, Bryophyta and Pteridophyta	90
„ 2.	Histology and Systematic Botany (Gymnosperms and Angiosperms)	.. 90
„ 3.	General Biology, Physiology and Ecology	90

## Practical—

Paper 1.	External and Internal Morphology	..	65
„ 2.	Classification and Physiology	..	65

*Botany, taken as subsidiary subject:—*

## Theory—

Paper 1.	Thallophyta, Bryophyta and Pteridophyta and Gymnosperms	.. ..	70
„ 2.	Angiosperms, Physiology and Evolution	..	70
Practical	.. .. .	..	60

*Zoology, taken as main subject:—*

## Theory—

Paper 1.	Evolution, Cytology and Histology	..	90
„ 2.	Non-Chordata	.. ..	90
„ 3.	Chordata	.. ..	90

## Marks

## Practical—

Paper 1.	Dissection, Identification and permanent mounting of non-Chordata .. ..	65
„ 2.	(a) Dissection and Identification of Chordata ..	65
	(b) Simple Section cutting technique ..	65

*Zoology, taken as subsidiary subject:—*

## Theory—

Paper 1.	Non-Chordata, Cytology and Histology ..	70
„ 2.	Chordata and General Principles of Evolution ..	70
Practical (one paper)	.. ..	60

*Geology, taken as subsidiary subject:—*

## Theory—

Paper 1.	(a) Physical Geology			
	(b) Crystallography			
	(c) Mineralogy			
	(d) Petrology .. ..			60
2.	(a) Stratigraphy			
	(b) Indian Geology ..			
	(c) Geology of Hyderabad State			
	(d) Economic Geology .. ..			60

## Practical—Sections (a) and (b).

## Section (a)—

## (i) Identification and description of—

- (a) Crystal Models
- (b) Rock types (Handles and Megascopic examination)
- (c) Fossils and their horizons
- (d) Minerals, by their physical characters.

## (ii) Blow pipe and simple qualitative tests to identify ore minerals.

## Section (b)—

- (i) Map Drawing and Structural Geology
- (ii) Identification and description of mineral and rock sections including important optical characters, and micro-structures .. 80

*Domestic Science, taken as subsidiary:—*

Paper 1.	Biochemistry, etc. .. ..	70
„ 2.	Psychology, etc. .. ..	70
Practical (one paper)	.. ..	60

## (3) Theology or Morals.

The pass percentage is the same as in the B.A. Examination.



*Master of Science (M.Sc.).*—The course extends over two years and is open to graduates in Science. A candidate may offer one of the following subjects, provided he has studied it as his main subject for B.Sc. Examination. There will be two Examinations, the Previous and the Final.

### 1. Chemistry.

In the Previous M.Sc. Examination in Chemistry there will be six papers on the following:—

- (1) General and Inorganic Chemistry.
- (2) Organic Chemistry.
- (3) Physical Chemistry.
- (4) Inorganic Practical.
- (5) Organic Practical.
- (6) Physico-Chemical Practical.

In the Final M.Sc. Examination in Chemistry there will be two papers on a selected subject, *viz.*, Physical, Inorganic or Organic Chemistry besides a thesis based on original research.

### 2. Physics.

In the Previous M.Sc. Examination in Physics there will be the following papers:—

- (1) General Physics and Sound.
- (2) Optics (Geometrical and Physical).
- (3) Heat including Thermodynamics.
- (4) Practical Examination in Heat, Sound and Properties of Matter.
- (5) Practical Examination in Optics.

In the Final M.Sc. Examination in Physics there will be the following papers:—

		Marks
Paper 1.	Classical Electricity and Magnetism ..	100
„ 2.	Modern Electricity ..	100
„ 3.	Special subjects:—	
	Any one of the following: ..	100
	(a) Spectroscopy (including Quantum Theory).	
	(b) X-rays.	
	(c) Wireless Telegraphy and Telephony.	
	(d) Photo-Electricity and Television.	
„ 4.	Practical Examination in Electricity ..	100
„ 5.	Report on practical work intensively carried out by the candidate with a view to verify and supplement the available data on some special problem of Physics ..	100

**Total .. 500**

### 3. Zoology.

In the Previous Examination in Zoology there will be the following papers and practical examinations:—

- (1) Non-Chordata: *Protozoa—Sipunculoidea*.
- (2) Non-Chordata: *Polyzoa—Mollusca*.
- (3) Essays on some subjects of Non-Chordata.
- (4) Practical: *Protozoa—Sipunculoidea*.
- (5) Practical: *Polyzoa—Mollusca*.

In the Final Examination in Zoology there will be the following papers and practical examinations:—

- (1) Chordata: *Hemichordata—Amphibia*.
- (2) Chordata: *Reptilia, Aves and Mammalia*.
- (3) General principles of Biology, Cytology and Histology.
- (4) Practical: *Hemichordata—Amphibia*.
- (5) Practical: *Reptilia—Mammalia*.

Or

*Thesis Group—*

- (1) Special subject-matter of the thesis.
- (2) Thesis including *viva voce*.
- (3) General principles of Biology, Histology and Cytology.
- (4) Practical examinations on subject-matter of the thesis.

Or

*Special Group—*

- (1) Fauna of Hyderabad State with reference to Special group.
- (2) General paper on Special group.
- (3) General Biology, Cytology and Histology.
- (4) Two practicals on the Special group.

*N.B.*—Candidates will be expected to acquaint themselves with the current literature pertaining to the Special Group or the Thesis selected by them.

### 4. Botany.

In the Previous Examination in Botany there will be the following papers:—

- Paper 1. Thallophyta.
- „ 2. Bryophyta and Pteridophyta.
- „ 3. Gymnosperms and General Histology.
- „ 4. Practical—Thallophyta and Bryophyta.
- „ 5. Practical—Pteridophyta and Gymnosperms.

In the Final Examination in Botany there will be the following papers:—

- Paper 1. General Biology.  
 „ 2. Angiosperms.  
 „ 3. Physiology and Ecology.  
 „ 4. Practical—Systematic (Angiosperms).  
 „ 5. Practical—Physiology and Microtomy.

Or

- Paper 1. General Biology.  
 „ 2. Special group.  
 „ 3. A Thesis based on the special subject.

The pass percentage is the same as in the M.A. Examination, but candidates have to pass separately in the Practical and Theoretical portions and to secure at least 25 per cent. in each paper, otherwise they are deemed to have failed.

*Doctor of Philosophy in Science (Ph.D.).*—The course extends over three years and is open to the candidates who have passed the M.Sc. Examination of this or any other recognised University in First or Second class. The candidates are required to submit a thesis based on original research and to undergo a *viva voce* and written examination if necessary.

### THEOLOGY

*The Matriculation Examination.*—The course extends over three years as in the Arts Faculty. Private candidates are also admitted on the same conditions as in the Arts Faculty. The subjects for study and examination are:—

(1) English (2 papers), (2) History and Geography (2 papers), (3) Elementary Mathematics (2 papers), (4) Science (1 paper), (5) Arabic (2 papers), (6) Aqaid (Dogmatics) (1 paper), (7) Fiqah (Muslim Law) (1 paper) and Hadis (Traditions) (1 paper).

The Rules for passing the examination are the same as for the Faculty of Arts.

*The Intermediate Examination.*—The subjects for study and examination are: (1) English (3 papers as in the Arts Faculty), (2) Arabic (2 papers as in the Arts Faculty), (3) Fiqah-wa-Usul-i-Fiqah (Muslim Law) (2 papers), (4) Tafsir, Hadis-wa-Usul-i-Hadis (Qoranic Exegesis and Traditions) (2 papers), (5) Aqaid, including Mabadi-i-Hikmat (Dogmatics and Elements of Philosophy) (1 paper).

The marks for a pass and classification of successful candidates are the same as for the Intermediate Examination in Arts.

For the purpose of the Compartment System, the examination is divided into three groups:—

1. English.
2. Arabic.
3. Theological Subjects.  
(Fiqah-wa-Usul-i-Fiqah, Tafsir, Hadis-wa-Usul-i-Hadis and Aqaid.)

A candidate who fails in any one of these groups and passes in the other two, shall be allowed to appear at a subsequent examination only in the group in which he failed, provided that the marks obtained by him in that group in the previous examination do not fall short of 25 per cent. For passing in group (3) under this system he shall obtain 33 per cent. in each of the subjects of this group and at least 35 per cent. in the aggregate.

*Bachelor of Arts (B.A.).*—The course of study extends over two years subsequent to passing the Intermediate Examination. The subjects for study and examination are:—(1) English (4 papers as in the Faculty of Arts), (2) Arabic (3 papers as in the Faculty of Arts), (3) Fiqah and Usul-i-Fiqah (Muslim Law) (2 papers). (4) Any one of the following:—

- |  |                       |
|--|-----------------------|
| (a) Tafsir (Qoranic Exegesis).         | } 2 papers<br>in each |
| (b) Hadis-wa-Usul-i-Hadis (Traditions) |                       |
| (c) Kalam and Usul-i-Din (Dialectics)  |                       |

To obtain a pass, 33 per cent. of the marks are required in each subject and classes are arranged on the same basis as at the B.A. Examination in the Arts Faculty.

*Master of Arts (M.A.).*—The course of study extends over two years subsequent to graduation, the examination being held at the end of each year. The subjects for study and examinations are:—

One of the following: (1) Fiqah-wa-Usul-i-Fiqah (Muslim Law), (2) Kalam-wa-Aqaid (Dialectics), (3) Tafsir (Qoranic Exegesis), and (4) Hadis, including Sirat (Traditions).

There are four papers in each subject for the previous examination. For the Final Examination there are two papers and students are required to submit a thesis based on research and to undergo a *viva voce* examination.

The marks for a pass and classification of successful candidates are the same as for the M.A. Examination in Arts.

*Doctor of Philosophy in Theology (Ph.D.).*—The course extends over three years and is opened to the candidates who have passed the M.A. Examination of this or any other recognised

university in First or Second class. The candidates are required to submit a thesis based on original research and to undergo a *viva voce* and written examination if necessary.

## Professional Courses of Study and Examinations

### LAW

*Bachelor of Laws (LL.B.).*—The course of study extends over two years subsequent to graduation. During the first year, a candidate is required to study the following subjects and will be examined in them at the end of the year:—

1. Criminal Law and Procedure.
2. Torts and Easements.
3. Evidence.
4. Contracts.
5. Roman Law.
6. Constitutional Law.

There are six papers set at the examination, one for each of the above-mentioned subjects.

After passing the above examination, a candidate for the Degree is required to study during the second year the following subjects and be examined therein:—

1. Hindu Law.
2. Muhammadan Law (including Usul-i-Fiqah).
3. Civil Procedure and Law relating to Civil Courts in His Exalted Highness the Nizam's Dominions; Limitation (excluding schedules).
4. Trusts and Specific Relief.
5. Jurisprudence and International Law.
6. Transfer of Property, Land Tenures including *Atiyyat* (grants of land).

There are six papers set at the examination, one for each subject.

To pass the examination the candidates must obtain 40 per cent. of the full marks in each paper. Those of the successful candidates who obtain not less than 60 per cent. of the total marks will be placed in the first division and those who obtain not less than 45 per cent. of the total marks will be placed in the second division.

The result of the Previous Examination will only be declared and will not be classified. The marks obtained by the candidates at the Previous Examination will be added to the marks gained by them at the Final Examination and the ranks secured by them will be determined accordingly.

## MEDICINE

*The Degree of M.B.B.S.*—The course of study extends over five years. Students who have passed the Intermediate Examination with Physics, Chemistry (Organic and Inorganic), Botany and Zoology are eligible for admission to the course. They are required to pass three examinations called the First, Second and Final M.B.B.S. Examinations respectively, and to pass each examination 50 per cent. of marks are to be obtained separately in the written and oral tests in each subject. Successful candidates obtaining not less than 75 per cent. of the aggregate number of marks are placed in the First Division and the rest in the Second.

Each of the first two M.B.B.S. examinations shall consist of two subjects and candidates shall be required to pass in both at the same time; whereas the Final or Third M.B.B.S. Examination shall consist of two groups of two subjects each, and candidates shall be required to pass at least in both subjects of any one group at the same time.

*First M.B.B.S. Examination*

The First M.B.B.S. Examination shall be held in the following subjects after a course of study extending over two academic years:—

- (a) Human Anatomy and Embryology.
- (b) Physiology including Bio-Chemistry.

*Second M.B.B.S. Examination*

The Second M.B.B.S. Examination shall be held in the following subjects after a course of study extending over one academic year after the passing of the First M.B.B.S. Examination:—

- (a) Materia Medica and Pharmacology.
- (b) Hygiene.
- (c) Forensic Medicine.

*Final M.B.B.S. Examination*

The Final M.B.B.S. Examination shall be held in the following subjects after a course of study extending over two years after passing the Second M.B.B.S. Examination:—

*Group I.*—

- (a) Medicine and Clinical Medicine including Therapeutics and special subjects.
- (b) Pathology and Bacteriology.

*Group II.*—

- (a) Surgery and Clinical Surgery.
- (b) Ophthalmology, and Oto-rhino-laryngology.
- (c) Obstetrics, Gynæcology and Diseases of Infancy.

## ENGINEERING

**B.E. Examination.**—The course extends over four years of which three years shall be spent in the College and the fourth chiefly in works. There will be two examinations, the Part I Examination will be held at the end of the second year and the Part II or the Final Examination after the completion of the three years' College Course. Civil Engineer students shall be attached for one year to P.W. Divisions and Mechanical Engineering students shall spend the final year in a recognized Engineering Workshop.

Candidates seeking admission to the College for the B.E. Degree will be required:—

- (a) to produce a health certificate as to fitness for outdoor work;
- (b) to have passed the Intermediate Examination of a recognized university with Mathematics, Physics and Chemistry as Optional subjects;
- (c) to produce a testimonial of good character and to possess a satisfactory knowledge of the Urdu Language.

The subjects for the Examinations will be as follows:—

*B.E. Part I Examination**Group I.—*

(1) Theory of Heat Engines	..	.. 100	} 200
(2) Theory of Machines	..	.. 100	

*Group II.—*

(1) Strength of Materials	..	.. 100	} 400
(2) Theory of Structures	..	.. 100	
(3) Hydraulics	..	.. 100	
(4) Practical Examination in Testing of Materials and Mechanical Engineering Laboratories	..	.. 100	

*Group III.—*

(1) Survey (Theory)	..	.. 100	} 300
(2) Survey (Practical)	..	.. 50	
(3) Engineering Design and Geometrical Drawing (4 hours' paper)	..	.. 150	

*Group IV.—*

(1) Pure Mathematics	..	.. 150	} 300
(2) Applied Mathematics	..	.. 150	

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TOTAL MARKS .. 1,200

*B.E. Part II Examinations*

## CIVIL

*Group I.—*

(1) Civil Engineering and R.C. Design (4 hours' paper) ..	150	} 550
(2) Roads and Railway Engineering ..	150	
(3) Irrigation ..	100	
(4) Water-supply and Sanitary Engineering ..	150	

*Group II.—*

(1) Strength of Materials ..	100	} 450
(2) Theory of Structures ..	100	
(3) Hydraulics and Hydraulic Machinery ..	100	
(4) Practical Examinations in Testing of Materials and Hydraulic Laboratories ..	150	

*Group III.—*

(1) Geodesy (Theory) ..	100	} 400
(2) Geodesy (Practical) ..	100	
(3) Drawing work done in 2nd and 3rd Year Classes and <i>viva voce</i> thereon (50 marks for <i>viva voce</i> and 50 marks for Drawing work) ..	200	

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TOTAL MARKS .. 1,400

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## MECHANICAL

*Group I.—*

(1) Theory of Machines ..	100	} 550
(2) Organisation of Industries and Works Management ..	100	
(3) Higher Thermodynamics ..	100	
(4) Metallurgy and Fuels ..	100	
(5) Aeronautics and Aero-engines ..	150	

*Group II.—*

(1) Strength of Materials ..	100	} 500
(2) Electro-Technics ..	150	
(3) Hydraulics and Hydraulic Machinery ..	100	
(4) Practical Examinations in Hydraulic, Mechanical Engineering Laboratories ..	150	

*Group III.—*

(1) Machine and Machine Tool Design (4 hours' paper) ..	150	} 350
(2) <i>Viva voce</i> and Drawing work done in the 2nd and 3rd Year Classes (50 marks for <i>viva voce</i> and 150 marks for Drawing work) ..	200	

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TOTAL MARKS .. 1,400

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The pass percentage for the B.E. Examination shall be as follows:—

1st Class 70% in the aggregate	} 30% in each paper and 40% in group.
2nd Class 50% in the aggregate	

Candidates who fail in one subject only but pass in the aggregate will be promoted to the next higher class and will be declared to have passed the Examination if they pass in that subject only at a subsequent examination.

### EDUCATION

*Diploma in Education.*—The course for the Diploma in Education shall extend over one year and will be open to graduates in Arts or Science of the Osmania University or of a recognized University. Besides the written examination, there will be a practical examination in the teaching of the subjects selected. Every candidate shall give two lessons in the presence of a Board of two Examiners.

Candidates shall be examined in—

	Marks
I. Principles of Education and Psychology ..	100
(a) Principles of Education.	
(b) Elementary Educational Psychology.	
II. School Management and Hygiene .. ..	100
III. History of Educational Ideas and Select Classics in Education .. ..	100
IV. Methods of teaching of any two of the following subjects:— .. ..	100
Physical or Biological Sciences, History, Geography, Mathematics, English, Urdu, Marathi, Kanarese, Telugu and Indian Classical Languages.	
V. Special Subjects: One of the following:—	
(a) Modern Educational Systems and Problems	} 100
(b) Advanced Educational Psychology ..	
(c) Child Education .. ..	

In paper V, 25 marks shall be assigned to the College record; 200 marks shall be assigned to Practical Examinations, and out of these 100 marks shall be assigned to the College record.

Instruction will also be imparted in the following additional subjects, but no examination will be held therein:—

- (a) Blackboard Illustration.
- (b) Manual Training and Handwork, or Nature Study and Gardening.
- (c) Physical Training.

All papers shall be of 3 hours' duration each.

Candidates who obtain not less than 30 per cent. of the marks in Papers I to V and 33 per cent. in the aggregate of the written examination and 35 per cent. in the practical examination shall be declared to be eligible to receive the Diploma in Education. All other candidates shall be deemed to have failed. Of the successful candidates those who obtain not less than 60 per cent. of the total marks shall be placed in the First Division, and those who obtain not less than 45 per cent. of the total marks shall be placed in the Second Division. The remaining successful candidates shall be considered to have passed in the Third Division. Successful candidates who obtain not less than 65 per cent. of the marks in the paper relating to Methods of Teaching (IV) shall be declared to have obtained distinction in that subject. In practical examination candidates who obtain 50 per cent. of the marks shall be placed in the Second Division and those who secure 65 per cent. shall be placed in the First Division.

*M.Ed.*—The course extends over one year and is open to B.T.'s and DIP-IN-ED.'s of this or any other recognised university. The examination shall consist of two parts:—

Part I.—A written examination consisting of the following papers of 100 marks each:—

- Paper 1. Theory of Education.
- „ 2. Methodology of one subject.
- „ 3. Special Subject: One of the following:—
  - (a) Educational Psychology with tests and measurements.
  - (b) History of Educational Ideas.
  - (c) Early Education of Children (200 marks).

Part II.—Dissertation.

Candidates who obtain not less than 35 per cent. marks in each of the papers, and 37 per cent. marks in the dissertation and 37 per cent. in the aggregate shall be declared to be eligible to receive the degree of Master of Education. Successful candidates who obtain 60 per cent. of the aggregate marks shall be placed in the First Class, those obtaining 50 per cent. or more in the Second Class and the rest in the Third Class.

### Examination Fees

	Rs.
Matriculation Examination:—(Arts and Theology)—	
(a) Students of recognized High Schools ..	12
(b) Private Students .. ..	16
(c) Those who have passed the Maulvi or Munshi Examination of His Exalted Highness the Nizam's Government appearing in English only	5

	Rs.
Intermediate Examination (Arts and Theology) ..	24
Intermediate (Science) .. ..	26
B.A. Degree Examination (Arts and Theology) ..	32
B.Sc. Degree (Science) .. ..	36
M.A. (Previous and Final) Examinations ..	30
M.Sc. (Previous and Final) Examinations ..	35
PH.D. Examination .. ..	100
Diploma in German and French .. ..	5

## FACULTY OF LAW

LL.B. (Previous) .. ..	30
LL.B. (Final) .. ..	30

## FACULTY OF MEDICINE

## M.B.B.S.—

First two Professional Examinations ..	each	30
Third Professional Examination ..	..	50
Appearing in Group only .. ..	..	30

## FACULTY OF ENGINEERING

## B.E.—

Part I Examination .. ..	30
Part II Final Examination .. ..	40

## FACULTY OF EDUCATION

Diploma in Education .. ..	40
M.Ed. .. ..	50

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# The Panjab University

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## Introductory: Character of the University

The University was established in 1882, being the fourth in India. The Indian Universities' Act of 1904 made certain changes, as in the case of the other Universities, and the territorial limits of the University were defined as including the Panjab, North-West Frontier Provinces, British Baluchistan and Kashmir.

The University was for a long time an examining body of candidates sent up for its examinations from the affiliated Colleges. But since 1919, several measures have been taken to introduce teaching under the control and direct operation of the University. At present, not only is the Honours teaching in every subject directly under the control of the University, but Colleges—the Oriental, Law and the Hailey College of Commerce—are administered by the University. Some attempt has been made at co-ordination of the teaching in the Colleges at Lahore.

The following are the several institutions affiliated for the different examinations of the University and their respective Principals; but a special feature is the recognition of Intermediate Colleges with a four-year course, two of which lead up to the Matriculation Examination and the other two to the Intermediate Examination.

<i>Institution</i>	<i>Principal</i>
Government College, Lahore	G. D. Sondhi, Esq., B.A. (Cantab.), M.A. (Pb.), Bar-at-Law, I.E.S., Professor of Political Science.
Oriental College, Lahore	M. Mohammad Shafi, M.A.
Law College, Lahore	Chuni Lal Anand, Esq., M.A., LL.B., Bar-at-Law.
Foreman Christian College, Lahore	Dr. S. K. Datta, B.A., M.B., ch.B.
Dayanand Anglo-Vedic College, Lahore	L. Mehr Chand, M.A., M.Sc. (Pb. and Boston Tech.).
Dyal Singh College, Lahore	N. Niyogi, Esq., M.A. (Cal.).

<i>Institution</i>	<i>Principal</i>
The Islamia College, Lahore	Khawaja Dil Mohammad, M.A.
The Sanatana Dharma College, Lahore	Dr. Bhupal Singh, M.A. (English and Economics), D.Litt. (Pb.).
Kinnaird College for Women, Lahore	Miss I. T. McNair, M.A. (Hons.) (Glas.), Principal and Lecturer in English.
Central Training Col- lege, Lahore	G. C. Chatterji, Esq., M.A., Dip.Ed. (Lond.), I.E.S.
King Edward Medical College, Lahore	Lt.-Col. V. R. Mirajkar, O.B.E., L.M. & S. (Bomb.), L.R.C.P. (Lond.), F.R.C.S. (Eng.), I.M.S.
Lady Hardinge Medical College, New Delhi	Dr. H. M. Lazarus, M.R.C.S. (Eng.), L.R.C.P. (Lond.), M.B.B.S. (Madras), F.R.C.S. (Edin.), D.G.O. (Lond.), W.M.S.
The Mohindra College, Patiala	B. N. Khosla, Esq., M.A. (Pb.), M.A. (Cantab.), Bar-at-Law, Professor of Economics.
Government College, Ludhiana	A. C. C. Hervey, Esq., M.A., I.E.S., Professor of English.
Dayanand Anglo-Vedic College, Jullundur City	Pt. Mehr Chand, B.A. (Pb.), Pro- fessor of Theology.
Randhir College, Kapurthala	S. Arbel Singh, B.Sc., Professor of Science.
The Khalsa College, Amritsar	Bhai Jodh Singh, M.A.
The Panjab Agricultural College, Lyallpur	K. B. Maulvi Fateh-ud-Din, B.A., M.B.E., M.R.A.S. (E), A.R.H.S., I.A.S.
Murray College, Sialkot City	J. Garrett, Esq., M.A. (Glas.).
Prince of Wales Col- lege Jammu	L. Sewa Ram Suri, M.Sc., Professor of Physics.
Gordon College, Rawalpindi	Dr. R. R. Stewart, M.A., Ph.D.
Dayanand Anglo-Vedic College, Rawalpindi	L. Jaswant Rai, M.A.
Islamia College, Peshawar	Dr. Omar Hayat Malik, M.A., LL.B. (Alig.), M.Sc. (Cantab.), Ph.D. (Gottingen).

<i>Institution</i>	<i>Principal</i>
Edwardes College, Peshawar	Rev. A. M. Dalaya, B.A. (Hons.) (Oxon.), LL.B. (Bombay).
Emerson College, Multan	K. S. M. Muhd. Ibrahim, M.A. (Alld.), P.E.S., Lecturer in Mathe- matics.
Sri Pratap College, Srinagar	Autar Kishan Kichloo, Esq., M.A., Acting Principal and Professor of Philosophy.
The Lahore College for Women, Lahore	Miss C. L. H. Geary, M.A. (Lond.).
Sadiq-Egerton College, Bhawalpur	M. A. Majid, Esq., M.A., Principal and Professor of History.
The Vedic Bhratri College, Dera Ismail Khan	Kundan Lal Khanna, Esq., M.A. (Panjab), Professor of English.
Ramsukh Das College, Ferozepur City	P. V. Kanai, Esq., M.A., LL.B., Pro- fessor of English and Philosophy.
Guru Nanak Khalsa College, Gujranwala	Bawa Harkrishan Singh, M.A. (Pb.), Professor of English.
Hindu Sabha College, Amritsar	K. L. Bhatia, Esq., M.A., B.Sc. (Pb.), M.A.R.S. (Lond.), Professor of English Literature.
Government College, Lyallpur	Sri Krishan Kapur, Esq., M.A., B.Sc., P.E.S. (Class I) (Pb.), Principal and Professor of Mathematics.
Government Inter- mediate College, Campbellpur	Sh. Chiragh-ud-Din, M.Sc., P.E.S., Lecturer in Physics.
Malerkotla College, Malerkotla State	M. R. Qureshi, Esq., M.A., B.T. (Pb.), Lecturer in Philosophy and English.
The Lawrence College, Ghora Gali	The Rev. W. Francis Cotton, M.A. (Oxon.), Lecturer in English.
Government Interme- diate College, Jhang	M. H. Hakeem, Esq., M.A., P.E.S.
Government Inter- mediate College, Dharmasala	Harish Chandra Bali, Esq., M.A. (Pb.), M.A. (Delhi), P.E.S.
Khalsa Intermediate College, Lyallpur	S. B. Sen Gupta, Esq., M.A., B.L. (Cal.), Principal.
Dayanand Anglo-Vedic College, Hoshiarpur	L. Ram Das, B.A., B.T. (Pb.), Lec- turer in English.

<i>Institution</i>	<i>Principal</i>
Dayanand Mathradas College, Moga	R. K. Kumar, Esq., M.A., F.R.E.S., Professor of English.
Government Intermediate College, Hoshiarpur	Sita Ram Kohli, Esq., M.A., F.R.Hist.S., P.E.S., Lecturer in History.
Government Intermediate College, Rohtak.	S. Prem Singh, M.Sc., P.E.S.
Hailey College of Commerce, Lahore	J. W. Thomas, Esq., B.Com., B.Sc. (Hons.) (Lond.), Professor of Economic History, Banking and Currency.
Government Intermediate College, Pasrur	Syed Saadat Ali Shah, M.A., P.E.S.
DeMontmorency College, Shahpur Sadr	Malik Ahmad Hussain, M.A., P.E.S.
Bishop Cotton School and Intermediate College, Simla	Rev. G. Sinker, M.A. (Brasenose College, Oxford), Principal.
The Lawrence Royal Military School and Intermediate College, Sanawar	Rev. C. G. O'Hagan, B.A. (Hons.) (Oxon.), I.E.E., Principal and Lecturer in Geography.
The Panjab College of Engineering and Technology, Lahore	Lieut.-Col. P. R. Bence-Jones, M.C., M.A., M.Inst.C.E., M.I.Mech.E., I.E.
M. A. O. College, Amritsar	Dr. M. D. Taseer, M.A., Ph.D. (Cantab.), Principal and Head of the English Department.
Stratford Govt. College for Women, Amritsar	Miss K. B. Feroz-ud-Din, M.A., M.O.L., M.R.S. (Lond.).
Government Intermediate College for Women, Lyallpur	Miss W. F. Jacob, B.A., T.D., Diploma in Geography (Nottingham), F.R.G.S.
Lady MacLagan Training College for Women, Lahore	Miss T. E. M. Wright, B.A. (Hons.) (Lond.), Diploma in Teaching.
Rai Bahadur Sohan Lal Training College for Women, Lahore	Rai Bahadur Sohan Lal, B.A., B.T., F.R.G.S., Principal and Lecturer in History and Geography.

<i>Institution</i>	<i>Principal</i>
Women's Christian • Medical College, Ludhiana	Edith M. Brown, D.B.E., M.A., M.D. (Brux.), M.C.O.G., L.R.C.P. & S. (Edin.); Certificated Student, Gir- ton College (Cantab.), Honours Tripos in Natural Science (1885).
The deMontmorency College of Dentistry, Lahore	Dr. C. D. Marshall Day, B.D.S. (N.Z.), D.M.D. (Harvard), M.S. (Roches- ter), F.I.C.D.
The Sikh National Col- lege, Lahore	S. Niranjana Singh, M.Sc.
Shri Atmanand Jain College, Ambala City	A. Osmond, Esq., M.A., Lecturer in Philosophy and English.
St. Joseph's College, Baramulla (Kashmir)	Rev. Father A. Andrews, D.D., Ph.D.
Zamindara Intermediate College, Gujrat	Dr. M. Jahangir Khan, M.A. (Cantab.), Ph.D. (Cantab.), Bar- at-Law.
Ranbir College, Sangrur	L. Chetan Anand, M.A. (Pb.).
Islamia College for Women, Lahore	V. Thakurdas, B.A. (Cantab.), M.A. (Pb.).
Munshi Ram Inter- mediate College, Fazilka	B. L. Kapur, Esq., B.A. (Hons.), (C.H.S.), M.A. (English and Phi- losophy).
Government Inter- mediate College, Abbottabad.	Mr. Chela Ram Bhatia, M.A., B.T., Lecturer in English.
Rajendra Intermediate College, Bhatinda	Hukam Singh Sodhi, Esq., M.A. (Pb.), Ph.D. (Lond.).
Islamia College, Jullundur	Q. M. Fareed, B.A. (Hons.) (Cantab.), Economics and History.
Doaba College, Jullundur City.	Rai Sahib Mukand Lal, M.A.

### Constitution of the University

The authorities of the University are: the Senate and the Syndicate (which correspond to the Court and the Executive Council of the newer Universities) and the Faculties.

There is also an Academic Council whose duties are: (1) to deal with University teaching and to make proposals for the initiation of fresh developments; (2) to prescribe, subject to the approval of the Senate, and upon the recommendations of the Boards of Studies and the Faculties, the Courses of



Reading, the Syllabuses and the outline of tests in each paper for all the examinations in the Arts and Science Faculties other than the Bachelor of Teaching and the Matriculation and School Leaving Certificate Examination; (3) to approve or reject any subject proposed for a thesis for the Doctorate Degree in the Oriental, Arts and Science Faculties; (4) to recognize the examinations of recognized universities as equivalent to the corresponding examinations of the University of the Panjab, excepting the M. & S.L.C. Examination; (5) to recommend to the Syndicate the creation of University teaching posts; (6) to advise upon all proposals put before the Syndicate for the creation or abolition of University teaching posts; (7) to advise the Syndicate on proposals of new expenditure on University teaching; (8) to recommend to the Syndicate the making of grants to a department or colleges contributing to University teaching; (9) to frame general rules for admission to classes under University teaching; (10) to frame general rules dealing with the principles and methods of examination and for the appointment of examiners but not to take part in the selection or appointment of the same; (11) to make proposals for distribution of new grants by the Government to the University and to the Colleges for the development of higher teaching; (12) to have general control in the management of the University Library; (13) to propose rules for the award of Studentships, Scholarships, etc., and to award them in accordance with such rules; and (14) to promote research within the University. Not only are its recommendations accepted by the Syndicate, but the Syndicate has frequently on its own initiative invited and accepted its opinion on academic matters not strictly within its constitutional purview. The policy of giving the teacher in purely academic matters an increasingly determining voice has been both consolidated and extended.

The Academic Council has appointed a Standing Committee to advise it on various topics, to frame issues and resolutions arising out of the agenda for consideration by the Council, and to scrutinise and express its opinion on applications of various types received and disposed of by it. The Committee has no final power, but it facilitates the scrutiny and disposal of work.

### **Officers and Staff of the University**

#### **PATRON**

His Excellency the Right Hon'ble the Marquess of Linlithgow,  
P.C., Kt., G.C.S.I., G.C.I.E., O.B.E., D.L., T.D.

#### **CHANCELLOR**

His Excellency Sir Bertrand James Glancy, K.C.S.I., K.C.I.E.

## VICE-CHANCELLOR

Khan Bahadur Mian M. Afzal Husain, M.A., M.Sc., I.A.S.

## DEANS

M. Mohammad Shafi, M.A. (*Oriental Learning*).

Prof. G. C. Chatterji, M.A., I.E.S. (*Arts*).

The Hon'ble Sir Douglas Young, Chief Justice (*Law*).

Dr. G. Matthai, M.A., Sc.D., F.R.S.E., I.E.S. (*Science*).

Lt.-Col. V. R. Mirajkar, O.B.E., L.M. & S. (Bomb.), L.R.C.P. (Lond.), F.R.C.S. (Eng.), I.M.S. (*Medicine*).

The Hon'ble Mr. Justice Tek Chand, M.A., LL.B. (*Commerce*).

H. R. Stewart, Esq., C.I.E., F.R.C.Sc.I., D.I.C., N.D.A., I.A.S. (*Agriculture*).

P. R. Bence-Jones, Esq., M.C., M.A., M.Inst.C.E., M.I.Mech.E. (*Engineering*).

Dr. C. D. Marshall Day, B.D.S., D.M.D., M.S. (*Dentistry*).

## REGISTRAR

Rai Bahadur Lala Ishwar Das, M.A., LL.B.

## CONTROLLER OF EXAMINATIONS

Diwan Bahadur Mr. S. P. Singha, M.A., LL.B., M.L.A.

## ASSISTANT CONTROLLER OF EXAMINATIONS

Bawa Narinjan Singh, M.A.

## ASSISTANT REGISTRAR

M. Bashir, Esq., B.Sc. (Hons.) (Edin.).

## DEAN OF UNIVERSITY INSTRUCTION

Khan Bahadur Mian M. Afzal Husain, M.A., M.Sc., I.A.S.

## UNIVERSITY PROFESSORS, READERS AND LECTURERS

Arabic	..	M. Mohd. Shafi, M.A. (Cantab.), M.A. (Pb.), Professor and four Lecturers.
Persian	..	Dr. Muhammad Iqbal, M.A., Ph.D., Professor and five Lecturers.
Sanskrit	..	Dr. Lakshman Sarup, M.A., D.Phil. (Oxon.), Officer d'Academie (France) Professor; Dr. Surya Kanta, M.A., D.Litt. (Pb.), D.Phil. (Oxon.), Reader and four Lecturers.

- Botany .. Dr. H. Chaudhuri, M.Sc., Ph.D., D.Sc., D.I.C., Reader, Head of the Department of University Teaching in Botany; four Lecturers and three Demonstrators.
- Zoology .. Dr. G. Matthai, M.A., Sc.D. (Cantab.), F.Z.S., F.L.S., F.R.S.E., I.E.S., Professor; Anand Kumar, Esq., M.A. (Cantab.), Reader; one Lecturer and three Demonstrators.
- Chemistry .. Dr. S. S. Bhatnagar, O.B.E., D.Sc., F.Inst.P. (*on deputation*); Dr. H. B. Dunncliff, C.I.E., M.A., Sc.D., F.I.C., I.E.S., Professor (*on leave*); Prof. P. C. Spears, M.Sc., Professor; Dr. J. N. Ray, M.Sc., Ph.D., D.Sc., F.I.C. (*on deputation*); Dr. N. A. Yajnik, M.A., D.Sc., A.I.C., Professor of Physical Chemistry (*Offg. Director, University Chemical Laboratories*); three Lecturers and four Demonstrators.
- Economics .. Dr. L. C. Jain, M.A., LL.B. (Alld.), Ph.D., D.Sc.Econ. (Lond.), Professor; and the following take part in co-operative teaching: four M.A.; one M.A., I.F.S.; one B.Sc., Ph.D., and five M.A., Ph.D.
- Mathematics .. C. V. H. Rao, Esq., M.A. (Cantab.), Professor and nine Lecturers.
- Astronomy .. P. Samuels Lall, Esq., M.A., B.Sc., F.R.A.S., Reader; Sardari Lal, Esq., B.Sc., B.T., Demonstrator.
- History (M.A.) .. J. F. Bruce, Esq., M.A. (Sydney), M.A. (Oxon.), Professor and nine Lecturers.
- History (Honours School) .. J. F. Bruce, Esq., M.A., (Sydney), M.A. (Oxon.), Professor and six Lecturers.
- Political Science .. Prof. G. D. Sondhi, M.A., I.E.S., Head of the Department; Dr. L. C. Jain, M.A., Ph.D., D.Sc.; J. N. Kosla, B.Sc., Ph.D. (Econ.) (Lond.), Barrister-at-Law, Reader and six Lecturers.
- Part-Time English Lecturer for the Science Honours Schools .. Dewan Chand Sharma, Esq., M.A.

Part-Time Lecturer in German	Dr. B. A. Quraishi, M.A., Ph.D.
Part-Time Lecturer in French	Dr. Prakash Kumar Shastri, B.A. (Pb.), M.A. (Oxon.), D.Litt. (Paris) ( <i>on leave</i> ).
Technical Chemistry	Prof. P. C. Speers, M.Sc., Professor and six Lecturers including the Principals, MacLagan Engineering College and Hailey College of Commerce and one Demonstrator.
Physics	.. J. B. Seth, Esq., M.A. (Cantab.), I.E.S., Head of the Department and nine Lecturers.

### Number of Students in the University under the Different Faculties

Total number of candidates that appeared in various Examinations in 1939-40:—52,470.

### Number of Successful Candidates in the Different Examinations, 1939-40

Oriental Faculty	.. Supplementary: Sanskrit—18, Arabic— 8, Persian—1, Urdu—37, Hindi—157, Panjabi—4, Panjabi (Persian Script) —2. B.O.L.—1, Oriental Languages: Sans- krit—631, Arabic—100, Persian— 684, Hindi—2,326, Panjabi—502, Urdu—349, Pushto—32, Panjabi in Persian Script—55.
Arts Faculty	.. M. & S.L.C.—20,112, Intermediate— 3,496, Supplementary—213, B.A.— 2,002, B.A. (Hons.)—180, B.A. Sup- plementary—109, Honours School in History (Part I)—6, Honours School in History (Part II)—6, M.A.—332, M.A. (Honours School in History) —1, B.T.—260, Supplementary—21, Ph.D.—1.
Science Faculty	.. Intermediate—725, Intermediate Sup- plementary—56, Medical Students group—460, Medical Students group (Supplementary)—51, B.Sc.—154,

B.Sc. Supplementary—14, Honours School (Preliminary and Subsidiary)—94, Supplementary—16, B.Sc. Honours School—43, M.Sc. (Honours School): Botany—7, Zoology—1, Chemistry—17, Physics—8, M.Sc. Tech.—11.

- Law Faculty** .. First Examination in Law (Supplementary) (New)—9, Supplementary F.E.L. (Old)—1, F.E.L. (New)—154, LL.B. (Old)—23, LL.B. (New)—110, LL.B. (Supplementary): (Old)—31, (New)—20, Master of Laws—1, Special Test in Law—1.
- Medical Faculty** .. First M.B.B.S. (May Session)—90, First M.B.B.S. (October Session)—46, Second M.B.B.S. (May Session)—80, Second M.B.B.S. (October Session)—35, Third M.B.B.S. (May Session)—75, (October Session)—16, Final M.B.B.S. (October Session)—45, (April Session)—55, M.S. (April Session)—2.
- Faculty of Dentistry** First Professional B.D.S. (April)—7, (October)—3, Second Professional B.D.S. (April)—7, (October)—1, Third Professional B.D.S. (April)—6, (October)—1, Final Professional B.D.S. (April)—5.
- Agricultural Faculty** First Examination F.Sc.AGRIC.: First Year—111, Supplementary—40, F.Sc.AGRIC. Second Year—126, B.Sc. (Ag.) Part I—96, Supplementary—23, B.Sc. (Ag.) Part II—85, Supplementary—17, M.Sc. (Ag.)—4.
- Commerce Faculty** Diploma in Commerce—1, B.Com.—32, Supplementary—3, B.Com. (English Preliminary)—31, Supplementary—6.
- Engineering Faculty** First Examination in Engineering—32, Second Examination in Engineering—25, Final Examination in Engineering: (a) Mechanical—4, (b) Electrical—14.
- Other Examinations** S.L.C.—15.

### Scholarships and Medals

Medals are awarded on the results of the University examinations for proficiency in the different subjects and scholarships are awarded for proficiency in the different subjects and in order of merit, and there are several scholarships awarded by reason of poverty and on the basis of communal distinction.

### Library, Museums, Laboratories, etc.

The total number of volumes including manuscripts in the Library on 15th July, 1941, was 100,890: (1) Books 89,392, (2) MSS. 11,498 upto 15th July, 1941. A sum of Rs. 14,660 was spent on the purchase of books and MSS. during the year ending 30th September 1940. About Rs. 7,066 during the year ending 30th September 1940, were spent on periodicals.

### Provision for Research

There are eight Studentships for research whose capital value is more than two lakhs and a half rupees and these are awarded to students who have distinguished themselves in the Master's Examination, for the purpose of investigation and research. A good deal of critical and research work is done by the University and College teachers.

### Publication and Extension Work

During the year 1940-41 the Oriental Publications Fund received Rs. 2,032-11-6 by sales and received a grant of Rs. 3,000 from the University. A number of important works have been published under the auspices of the University of which a list is given below:

1. "Introduction to Prakrit," by Dr. A. C. Woolner. Pages 215. Price Rs. 3. Revised Edition.
- \*2. "Yaska's Niruktam," by Dr. L. Sarup. Price Rs. 6.
3. "Ardha Magadhi Reader," by Dr. Banarsi Dass. Price Rs. 2-4.
4. "Atharva Pratisakhya," by Vidyarthi. Price Rs. 2-4.
- \*5. "Maha Vira Charitam," by P. Todar Mall. Price Rs. 7-8.
- \*6. "Asoka Text and Glossary," by Dr. A. C. Woolner. Price Rs. 10.
7. "Yaska's Niruktam," by Dr. L. Sarup. Price Rs. 3-6.
8. "Analytical Indexes to the Iqd of Ibn Abd Rabbih," by Prof. Mohd. Shafi. Vol. I, Rs. 26. Vol. II, Rs. 6-8.

9. "Iqlid al Khizana" or an index of the works quoted in the Khizanat al Adab. Price Re. 1; bound Rs. 1-5.

10. "Indices to Yaska's Niruktam," by Dr. L. Sarup. Price Rs. 4-8.

11. "Phonology of Panjabi," by Dr. Banarsi Dass. Price Rs. 3-12.

\*11(a) "Ludhiani Phonetic Reader," by Dr. Banarsi Dass. Price As. 12.

12. "English Translation of Plays Attributed to Bhasa," by Dr. Woolner and Dr. Sarup. Vols. I and II together 15*sh.*, or Rs. 11-4; each Vol. 9*sh.* of Rs. 6-12.

13. "Letters of Rashiduddin Fadlullah," edited with abridged translation by Prof. M. Shafi, M.A. (under preparation).

\*14. "Saundarananda of Asvaghosha," by E. H. Johnston. Price 12*sh.* 6*d.* or Rs. 9-6.

15. "Fragments of the Commentaries of Skanda and Mahesvara on the Nirukta," by Dr. L. Sarup. Price As. 15. Bound Rs. 1-11.

16. "Varahagrhyasutra," by Dr. Raghuvira. Price Rs. 3-12.

17. "Critical Edition of the Commentary of Skanda Mahesvara on the Nirukta," Part II. Price Rs. 3-12.

18. "Majmu' A-I-Naghz" or the Tazkirah-i-Shu'ara-i-Urdu, by Mir Qudratullah Qasim. Ed. H. M. Shairani. Two volumes, Rs. 3-12.

19. "Ali B. Zaid al-Baihaqi's Tatimmatu Siwan al Hikma," edited by Prof. Mohd. Shafi. Two parts, Part I, Rs. 5, Part II, Rs. 1-12. Part III in the Press.

20. "Zubdat ul Tawarikh" or Akhbar al-Daulat-al-Saljukiya, by Dr. Mohd. Iqbal. Price, Cloth bound Rs. 4-5; Paper cover Rs. 3-12.

\*21. "Saundarananda" or Nanda the Fair of Asvaghosha, by Dr. E. H. Johnston. Price 12*sh.* 6*d.* or Rs. 9-6.

22. "Hindi Edition of Introduction to Prakrit," by Dr. Banarsi Dass. Price Rs. 2-4.

23. "Fragments of the Commentaries of Skanda and Mahesvara on the Nirukta," Part III, by Dr. L. Sarup. Price Rs. 6-12.

24. "A Word Index to the Padumavati the Famous Poem of Malik Muhammad, 1540 A.D.," by Dr. Surya Kanta. Price Rs. 5-4.

25. "Edition and Translation of Sivasvamin's Kapphina-bhyudaya," by Dr. Gauri Shankar. Price Rs. 6.

26. "Translation of Kundamala," by A. C. Woolner. Price Rs. 4.

27. "Index of Tulsi Das Ramayana," by Dr. Surya Kanta. Price Rs. 12-4.

28. "Udaipur Inscription," 1,082 verses with historical notes, by Sri Ram Sharma. (In the press.)

29. "Life and Works of Amir Khusrau," by Dr. Wahid Mirza. Price Rs. 4.

30. "Buddhacharita," Parts I and II, by Dr. E. H. Johnston. Price Part I, Rs. 4; Part II, Rs. 5-8.

Items marked \* can be obtained from the Oxford University Press, 17-19, Elphinstone Circle, Bombay; the rest from the Oriental College, Lahore.

In order to bring the University in direct contact with the educated community in the Province, a scheme of University Extension Lectures has been inaugurated. According to this scheme, public lectures of a popular kind by prominent educationists are delivered every year in important mofussil towns. By this extension of its activities the University is playing an important part in the cultural development of the Province.

### **Military Training**

There is a University Training Corps, the strength of which on 1st January 1941 was 21 officers and 936 other ranks. The Corps is divided into detachments according to the Colleges in Lahore.

### **Residence and Cost of Living**

Under the regulations, every undergraduate student at a Lahore College is required to live in a college or in a Hostel recognized by the University or with his guardian. There are ten recognized hostels in addition to the hostels affiliated to Colleges. There is a Students' Residence Committee which supervises the residential life of the students of the University.

### **Budget**

The Revenue and Expenditure for the year ending 31st March 1940, deducting investments matured and advances refunded, were Rs. 18,13,103 and Rs. 17,29,182 respectively. During the year 1939-40 a Government Grant of Rs. 3,14,275 was received.



### Women's Education

There are nine Colleges—Kinnaird College for Women, Lahore, Lahore College for Women, Lahore, Lady Hardinge Medical College, New Delhi, Stratford Government College for Women, Amritsar, Lady MacLagan Training College for Women, Lahore, Government Intermediate College for Women, Lyallpur, Women's Christian Medical College, Ludhiana, Islamia College for Women, Lahore and R. B. Sohan Lal Training College for Women, Lahore—exclusively for women. The Kinnaird College is affiliated as far as the B.A. Degree in English, Mathematics, History, Geography, Philosophy, Economics, Sanskrit, Persian, Astronomy, Political Science, Urdu, Hindi and Panjabi. Lahore College for Women is also affiliated upto the B.A. standard in English, Mathematics, History, Philosophy, Chemistry, Sanskrit, Persian, Arabic, Geography, Political Science, Urdu, Hindi and Panjabi. Lady Hardinge Medical College is affiliated to the Panjab University for the Intermediate Science Examination and the M.B.B.S. Degree Examination. Stratford College for Women is affiliated upto the B.A. standard in English, Persian, Sanskrit, History, Mathematics, Philosophy, Urdu, Hindi and Panjabi. Lady MacLagan Training College for Women, Lahore, is affiliated to the University for the Degree of Bachelor of Teaching. Government Intermediate College for Women, Lyallpur, is affiliated upto the Intermediate standard in English, Mathematics, History, Geography, Persian, Biology, Urdu, Hindi and Panjabi. Women's Christian Medical College, Ludhiana, is affiliated to the Panjab University for the First Professional M.B.B.S. Examination for the M.B.B.S. Degree. Islamia College for Girls, Lahore, is affiliated upto the B.A. standard in English, Mathematics, History, Philosophy, Arabic, Persian, Economics, Political Science and Urdu. Rai Bahadur Sohan Lal Training College for Women, Lahore, is affiliated to the University for the Degree of Bachelor of Teaching. Lady students seeking for higher degrees other than those mentioned above are permitted to join the men's colleges.

### Students' Information Bureau and its Activities

*Secretary:* Professor Madan Gopal Singh, M.A. (Oxon.).

There is a Foreign Information Bureau instituted primarily for the purpose of helping students in the choice of a career and of the appropriate courses of study abroad. During the year ending 31st July 1941, the number of personal enquiries from the students as well as from the High Commissioner's office fell below normal on account of the War. Inquiries however from post-graduate students in connection with courses of studies available at Indian Universities and about different

professional training courses obtainable in different parts of India, showed a marked increase. The Secretary and his assistant interviewed students and gave them what help they could from personal knowledge and experience. The Bureau is not adequately provided with literature about Indian Universities and it would be a great help if Calendars and Regulations issued by them were freely made available. The chief aim of the Bureau is to keep in constant touch with the student community and to tender advice in the circumstances of an individual case.

### **Provision for Safeguarding Health, Medical Inspection, Discipline, etc.**

Most of the Colleges arrange for the annual medical inspection of the students on their rolls.

The University has appointed visitors to inspect lodgings intended for students in Lahore and encourages recognition of private hostels by financial assistance on giving limited control to the University over these lodgings.

The University has instituted a proctorial system for observing the behaviour of the students outside the college walls and each college affiliated to the University has appointed Proctors and Pro-Proctors to see that the rules framed by the Committee of Proctors with the approval of the University are observed.

The University has appointed a Director of Physical Training who co-ordinates instruction in Physical Training among the various Colleges affiliated to the University. He also acts as Secretary to the Panjab University Sports Tournament Committee. The object is to create among the University students a taste for Physical Training and to meet this object an attempt has been made to introduce and standardize Medico-Physical Examination in all Colleges.

With effect from June 1932 Physical Training has been made compulsory for Intermediate students (except those who are members of the University Training Corps) who are required to produce a certificate of having attended not less than 50 periods of Physical Training in the first year class in accordance with the rules framed by the Syndicate from time to time, before they are considered eligible to appear in the Intermediate Examination.

There is a Sports Tournament Committee which arranges Annual Tournaments between the various Colleges affiliated to the University. The winning teams are awarded cups, shields and prizes. It is financed by the University.

### Courses of Study, Examinations and Degrees

The University offers the degrees of B.A. (Pass and Honours), M.A., Ph.D., D.Litt. and B.T. in Arts; B.Sc. (Pass and Honours), M.Sc., M.Sc. (Tech.), Ph.D. and D.Sc. in Science; LL.B., LL.M. and LL.D. in Law; M.B.B.S., M.S. and M.D. in Medicine; B.D.S. in Dentistry; B.Sc. and M.Sc. in Agriculture; B.Sc. in Engineering; B.O.L., M.O.L., Ph.D. and D.O.L. in Oriental Learning and the Degree of Bachelor of Commerce in Commerce. There is also provision for the award by the University of Diploma in Literary Titles in Oriental Languages.

### ADMISSION TO THE UNIVERSITY

Admission to the University is open to students who have passed the Matriculation Examination of this University or an examination recognized as equivalent to it.

### ARTS

*Intermediate Examination.*—The course extends over two academical years subsequent to passing the Matriculation Examination or any other examination recognized for the purpose, a candidate being required to study and be examined in four of the following subjects:—(1) English (2 papers), (2) A Classical Language [Sanskrit, Arabic, Hebrew, Greek, Latin or Persian, *or* in the case of candidates who have not passed the Matriculation Examination in a Classical Language, French or German as an alternative to a Classical Language at their option, *or* in the case of female candidates French, German or one of the Modern Indian Languages recognized by the University, *or* in the case of European and Anglo-Indian candidates or Indian students in the Lawrence College, Ghora Gali, Urdu or Hindi or Panjabi (2 papers)], and *two* of the following: Mathematics (2 papers), Physics (2 papers and a practical examination), Chemistry (2 papers and a practical examination), Philosophy (2 papers), History (2 papers), Geography (2 papers), Economics (2 papers), Biology (Botany and Zoology) (2 papers and a practical examination), Geology (2 papers and a practical examination), Agriculture (2 papers), Home Science, Music and Art (to be taken by female candidates only); Chemistry can be taken only by a candidate who has taken Physics or Agriculture as one of his elective subjects.

In addition to the above subjects a candidate may take an additional paper (carrying 50 marks) in a Modern Indian Language recognized by the University, *or* in French or German if the same has not already been taken as a fixed subject, while any candidate who is a member of the University Training Corps or of the Panjab Rifles A.F.(I.) and

has attended 66 per cent. of the parades held, may take Military Science (practical test only) as an additional optional subject carrying 50 marks in place of a Modern Indian Language or French or German.

Marks allotted to each subject except the additional paper in a Modern Indian Language or in French or in German and in Military Science are 150.

The minimum for a pass is 33 per cent. in each subject and 25 per cent. in the practical examination in case of a science subject. Candidates obtaining 65 per cent. or more of the aggregate number of marks are placed in the First Division, and those obtaining not less than 50 per cent. in the Second Division.

Any student who obtains 40 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about six months or if he fails to pass or present himself for the examination then, at the next annual examination and if he passes in that subject in either of these examinations he is deemed to have passed the Intermediate Examination.

The candidate to whom this concession is granted is allowed to read for the Degree of Bachelor in a College provided he joins on or before the last date prescribed for admission to the third year class but is not eligible to a scholarship on passing the Intermediate Examination.

*Bachelor of Arts (Pass and Honours).*—The course of study extends over two years after the Intermediate Examination in Arts and Science Faculty of the Panjab University or other equivalent examination of any other recognized University and the subjects for study and examination are: English (3 papers) and two of the following subjects: (1) A Classical Language (Sanskrit, Arabic, Hebrew, Greek, or Latin or Persian or French or German) (2 papers), (2) Mathematics, Course A (2 papers), (3) Mathematics, Course B (2 papers), (4) History (2 papers), (5) Political Economy (2 papers), (6) Philosophy (2 papers), (7) Physics, Chemistry, Geology, Botany or Zoology (2 papers and a practical examination), (8) Astronomy with Optics and Spherical Trigonometry (2 papers and a practical examination), (9) Political Science (2 papers), (10) Geography [2 papers and a practical paper (map work)], (11) Home Science, (12) Music, (13) Art. (The last three to be taken by female candidates only.)

In addition to the above three subjects a candidate has the option of taking an additional paper (carrying 50 marks) in a Modern Indian Language recognized by the University while

any candidate, who is a member of the University Training Corps or of the Panjab Rifles A.F.(I.) and has attended 66 per cent. of the parades held, has the option of taking Military Science (one paper and a practical test) carrying 50 marks in place of a Modern Indian Language.

No candidate can take Physics or Chemistry who has not taken the corresponding subject in the Intermediate Arts and no one can take (8) unless with (2), (3) or (7).

Marks allotted to each subject except to the additional paper in a Modern Indian Language and the Military Science are 150.

40 per cent. in English, in one other subject and in the aggregate of Pass papers, and 33 per cent. in the third subject qualifies a student for an Ordinary Pass. In Science subjects this percentage is required in both the practical and the written examinations. 40 per cent. is the minimum number of marks required to pass in Additional paper in a Modern Indian Language, and in Military Science. Those obtaining 65 per cent. or more of the aggregate number of marks in the Pass papers including the additional paper in the Modern Indian Language or in Military Science are placed in the First Class and those obtaining not less than 50 per cent. in the Second Class.

If a candidate secures 45 per cent. or more marks in a subject or subjects but fails in the examination, he shall, if he so desires, be given exemption from appearing in such subject or subjects in a subsequent examination. But in order to be deemed to have passed the examination he shall secure 40 per cent. in the remaining subject or subjects in the subsequent examination or examinations, provided that the examination shall be completed within 25 months from the date of his passing in one or more subjects.

Any student who obtains 45 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about 6 months or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that subject in either of these examinations, he is deemed to have passed the B.A. Examination, but is not eligible for a scholarship or for Honours.

In the case of students sitting for the Honours Examination 3 Honours papers of the total value of 200 marks are set in addition to the Pass papers in each of the subjects approved for Honours. A candidate can take Honours in one of the subjects taken up by him for the Pass Course, namely, English, History, Mathematics, Economics, Philosophy (General Philosophy or Psychology), Sanskrit, Arabic, Persian, Physics and

Geology provided that Honours papers in Mathematics can only be taken up by candidates who take up both A and B Courses of Mathematics as their elective subjects for the B.A. Pass Course. Unless a candidate passes the whole examination in all three subjects and obtains 50 per cent. in the Pass papers in the subject in which he seeks Honours, his Honours papers shall not be examined. To obtain Honours, a candidate must obtain at least 45 per cent. in the Honours papers taken together.

The marks gained in the Honours papers are not added to the total gained in the Pass Examination.

*Master of Arts.*—The Degree can be obtained by graduates in Arts, Science, Agriculture or Commerce of this or other recognized Universities and the following are the subjects for study and examination of which only *one* may be selected by a candidate: (1) A Language (English, Sanskrit, Arabic, Persian, Hebrew, Greek or Latin). (2) History. (3) Political Economy. (4) Mathematics. (5) Mental and Moral Philosophy. (6) Psychology. (7) Political Science. Except in Economics six papers of three hours each are set in each of the subjects, each paper carrying 100 marks. In Economics there shall be four papers of three hours each, each carrying 100 marks, and either a thesis (including *viva voce*) carrying 200 marks or an approved alternative of two papers carrying the same number of marks. In order to pass, a candidate must obtain 40 per cent. of the marks in each paper except the Essay paper in English in which 45 per cent. are to be obtained and 45 per cent. in the aggregate. Candidates who secure 65 per cent. or more in the aggregate are placed in the First Division and those obtaining 55 per cent. are placed in the Second Division.

*Degree of Doctor of Philosophy (Ph.D.) in the Arts Faculty.* --The Degree is open to one who has obtained the Master's Degree of the Panjab or of any other recognized University in the subject other than Mathematics with which his thesis is connected and has pursued an advanced course of study bearing upon the subject selected by him for the degree for three years. Every candidate must submit a thesis on the subject previously accepted by the Academic Council showing an evidence of original work. Further, if desired by the examiners, he must submit himself for an oral or written examination on the subject of his thesis and cognate subjects.

*Doctor of Literature (D.Litt.).*—The Degree is open to one who has passed six years previously the examination for the Degree of Master of Arts and has already made substantial published contributions to learning. Every candidate must submit his work containing an original and substantial contribution to some branch of learning. Candidates who give evidence

of research and ability satisfactory to the Board of Examiners and fulfil the prescribed conditions are admitted to the Degree of Doctor of Literature. If the Board of Examiners consider that the candidate is not worthy of the Degree of Doctor of Literature, but that his work is of a standard equivalent to that required for the Degree of Doctor of Philosophy, they may recommend him to the Syndicate for the grant of the Degree of Doctor of Philosophy.

### SCIENCE

*Intermediate Examination.*—The course extends over two academical years subsequent to the Matriculation or any other Examination recognized for the purpose.

For candidates taking the Non-Medical Students' Group, English is the only fixed subject while Physics, Chemistry, Mathematics, Biology, Physiology, Geology and Agriculture are the elective subjects out of which a candidate has to take any three, provided that Biology and Physiology, and Biology and Agriculture together are not allowed in any group of subjects, and provided that candidates taking Mathematics as one of the elective subjects are not allowed to attempt the Mathematics questions in the Physics paper.

The following subjects comprise the Medical Students' Group: (1) English, (2) Physics, (3) Chemistry, and (4) Biology.

There are two papers in each subject and a practical examination in the case of a Science subject.

In addition to the above subjects, a candidate (for either group), may take an additional paper (carrying 50 marks) in a Modern Indian Language recognized by the University or in French or in German, while any candidate, who is a member of the University Training Corps or of the Panjab Rifles A.F.(I.) and has attended 66 per cent. of the parades held, may take Military Science (Practical test only) as an additional subject carrying 50 marks in place of a Modern Indian Language or French or German.

Marks allotted to each subject except the additional paper in a Modern Indian Language or in French or in German and in Military Science are 150.

The minimum for a pass is 33 per cent. in each subject and 25 per cent. in the practical examination. Candidates obtaining 65 per cent. or more of the aggregate number of marks including the marks of the additional paper in the Modern Indian Language or in Military Science are placed in the First Division and those obtaining not less than 50 per cent. in the Second Division. Any student who obtains 40 per cent. of the

aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about six months, or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that subject in either of these examinations he is deemed to have passed the Intermediate Examination.

The candidate to whom this concession is granted, is allowed to read for the degree of Bachelor in a College provided he joins on or before the last date prescribed for admission to the third year class but is not eligible to a scholarship on passing the Intermediate Examination.

*Bachelor of Science (Pass and Honours).*—The course extends over two academical years subsequent to Intermediate Examination in Arts or Science, or the First Examination in Agriculture of this or other equivalent examination of any other recognized University and except in the case of candidates who have passed the First Examination in Agriculture, every candidate is required to study and be examined in the following subjects:—(1) English (2 papers) and *one* of the following Groups: (1) Physics and Chemistry. (2) Botany and Zoology. (3) Geology and Physics. (4) Zoology and Physiology. (5) Geology and Chemistry. (6) Chemistry and Technical Chemistry. (7) Physics and Astronomy. (8) Zoology and Chemistry. (9) Physiology and Chemistry. (10) Botany and Chemistry. (11) Botany and Physics. (12) Zoology and Physics. (13) Physiology and Human Anatomy. (14) Zoology and Human Anatomy. Every candidate who has passed the First Examination in Agriculture is required to take up English and any two subjects out of (a) Botany, (b) Zoology, (c) Geology, (d) Mathematics, (e) Physics, and (f) Chemistry, provided that such a candidate when desirous of taking Mathematics or Physics or Chemistry must:—

- (i) attend at least two-thirds of the extra lectures arranged in Mathematics, or in the case of Physics and Chemistry at least twenty extra practicals and two-thirds of the extra lectures arranged in the subject concerned, and
- (ii) appear in and pass in the subject concerned in the supplementary F.Sc. Examination in September or in the next annual examination.

Two papers are set in each group and there is also a practical examination. Candidates must choose only the group of subjects they have chosen for the Intermediate Examination with certain exceptions. Provided that they cannot take up Astronomy unless they have also taken up Mathematics in the Intermediate Examination.



In addition to the above subjects a candidate may take up additional papers in a Modern Indian Language recognized by the University, while any candidate, who is a member of the University Training Corps or of the Panjab Rifles A.F.(I.) and has attended 66 per cent. of the parades held, has the option of taking Military Science (a written paper and a practical test) as an additional optional subject in place of a Modern Indian Language. It is not necessary for the candidate to have qualified in the Military Science in the Intermediate Examination. 150 Marks are allotted to each subject except a Modern Indian Language or the Military Science which carries 50 marks.

In order to pass a candidate must obtain 33 per cent. in English and 40 per cent. in each Science subject and in the aggregate of the pass papers. In each Science subject this pass percentage is required in the written examination and in the aggregate but only 33 per cent. in the practical examination. 40 per cent. is the minimum for passing in Additional papers in a Modern Indian Language or Military Science both written and practical. Those obtaining 65 per cent. or more of the aggregate number of marks in the Pass papers including the additional paper in the Modern Indian Language or in Military Science are placed in the First Division and those obtaining not less than 50 per cent. in the Second Division. Marks obtained in a Modern Indian Language or Military Science are not counted for purposes of Division but a separate certificate of having qualified in the subject is granted to candidates successful in the subject.

Any student who obtains 45 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about 6 months or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that subject in either of these examinations, he is deemed to have passed the B.Sc. Examination, but is not eligible for a scholarship or for Honours.

Similarly a candidate who fails only in one practical but obtains not less than 25 per cent. in that practical and not less than 40 per cent. in the aggregate of that subject and in the aggregate of all the subjects is admitted to an examination in that subject only after about 6 months or if he fails to pass or present himself for the examination, then at the next annual examination, and if he passes he is deemed to have passed the B.Sc. Examination but is not eligible for a scholarship or for Honours.

*Honours.*—Honours is allowed in Physics and Geology only. A candidate has also the option of taking the three

English papers meant for the B.A. candidate and further to take up Honours in English as well; the total number of marks for Honours papers being 200. To obtain Honours, a candidate should secure at least 45 per cent. in the Honours papers taken together and 50 per cent. in the Pass papers in the subject in which he seeks Honours.

Marks obtained in the Honours papers are not added to the total gained in the Pass Examination.

*Master of Science.*—The course is open to graduates in Science or Agriculture or Arts (with Physics or Chemistry as one of their subjects in the B.A.) of this University or other recognized Universities, and *one* of the following subjects should be selected for study and examination:—(1) Physics, (2) Geology, (3) Physiology. There will be five papers of three hours each in every subject and a practical test. In order to pass, a candidate must obtain 33 per cent. in each paper and in the practical and 45 per cent. in the aggregate. 700 marks in total are allotted to each subject. 65 per cent. or more of the aggregate qualifies one for a First Class and 55 per cent. for a Second Class.

*Degree of Doctor of Philosophy (Ph.D.) in the Science Faculty.*—The Degree is open to one who has obtained the Degree of Master of Science in the Faculty of Science or the Faculty of Agriculture, or of Master of Arts in Mathematics of the University of the Panjab or of any other recognized University or being a graduate of the University of the Panjab has passed any other equivalent examination in the subject with which his thesis is connected and has pursued an advanced course of study bearing upon the subject selected by him for the Degree for three years after passing his examination for the Degree of Master, or if he has passed the Degree of Master from any other recognized University (*a*) that he has for three years carried on research work under approved supervision in an institution affiliated to this University; and (*b*) that in the case of Science subjects his examination for the Degree of Master included some research work. The candidate must submit a thesis showing ability in original research on a subject previously accepted by the Academic Council. Further if desired by the Examiners he must submit himself for an oral or written Examination on the subject of his thesis and cognate subjects.

*Doctor of Science (D.Sc.).*—The Degree is open to one who has passed six years previously the examination for the Degree of Master of Science and has already made substantial published contributions to Science. Every candidate must submit his

work containing an original and substantial contribution to some branch of learning. Candidates who give evidence of research and ability satisfactory to the Board of Examiners and fulfil the prescribed conditions are admitted to the Degree of Doctor of Science. If the Board of Examiners consider that the candidate is not worthy of the Degree of Doctor of Science, but that his work is of a standard equivalent to that required for the Degree of Doctor of Philosophy, they may recommend him to the Syndicate for the grant of the Degree of Doctor of Philosophy.

### ORIENTAL

*Intermediate Examination (F.O.L.).*—The course extends over two academical years subsequent to passing the M. & S.L.C. Examination of the Panjab University with a Classical Language (Sanskrit, Arabic or Persian) as one of the subjects. A candidate is required to study and be examined in the following: (1) Sanskrit, Arabic or Persian, (2) English, (3) History, (4) A Modern Indian Language (Urdu or Hindi or Panjabi). There will be four papers of three hours each in Sanskrit, Arabic or Persian of the total value of 300 marks. In English, History and Modern Indian Language, there are two papers of three hours each (total value of marks in each subject being 100).

Questions set by the examiners shall be set in English, but the answers written by the candidates may be in English or any Modern Indian Language recognized by the University in the case of all subjects except English in which the medium shall be English.

The minimum number of marks for a pass is 33 per cent. in each subject. Those obtaining 65 per cent. or more of the aggregate number of marks are placed in the First Class and those obtaining not less than 50 per cent. in the Second Class.

Any student who obtains 40 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about 6 months or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that subject in either of these examinations he is deemed to have passed the Intermediate Examination.

The candidate to whom this concession is granted is allowed to read for the Degree of Bachelor in a College provided he joins on or before the last date prescribed for admission to the third year class, but is not eligible to a scholarship on passing the Intermediate Examination.

*Bachelor of Oriental Learning (B.O.L.).*—The course extends over two academical years subsequent to passing the Intermediate Examination in the Oriental Faculty of the University of the Panjab or the B.A. Examination of the Panjab or any other recognized University, the following being the subjects for study and examination: (1) Sanskrit, Arabic or Persian (300 marks), (2) English or History (100 marks), and (3) A Modern Indian Language (Urdu, Hindi or Panjabi) (100 marks). In Sanskrit, Arabic or Persian, there are four papers of three hours each. Two papers are set in each of the other subjects, except in English in which 3 papers are set.

Questions set by the examiners shall be set in English, but the answers written by the candidates may be in English or any Modern Indian Language recognized by the University in the case of all subjects except English in which the medium shall be English.

The minimum number of marks for a pass is 40 per cent. in the fixed subject, in one other subject, and in the aggregate, and 33 per cent. in the third subject. Any student who obtains 50 per cent. of the aggregate number of marks but fails in one subject by not more than 5 marks, is deemed to have passed.

65 per cent. of the aggregate or more will qualify a candidate for the First Division and not less than 50 per cent. for the Second Division.

*Master of Oriental Learning (M.O.L.).*—The course of study extends over one academical year subsequent to graduation in Oriental Learning in the Panjab University and is also open to students who have taken the Degree of M.A. of this or of any other recognized University. The following are the subjects for study and examination (one only to be taken by a candidate): (1) Sanskrit, (2) Arabic, or (3) Persian. Six papers of three hours each are set in each language.

The questions set by the examiners shall be set in English. All answers are to be written in the Modern Indian Language selected by the candidate as medium of examination in his application and every candidate is required to write in the language selected by him an essay on a subject connected with the History or Literature of that Language.

The minimum for a pass in this examination is 50 per cent. in the aggregate and 33 per cent. in each paper (except the paper on Composition for which 50 per cent. is required). Candidates who obtain 70 per cent. or more of the aggregate number of marks are placed in the First Class, and those gaining 60 per cent. in the Second Class.

*Degree of Doctor of Philosophy (Ph.D.) in the Oriental Faculty.*—The Degree is open to one who has taken the Degree

of Master of Oriental Learning in the subject with which his thesis is connected and has pursued an advanced course of study bearing upon the subject selected by him for the degree for three years after passing his Examination for the Degree of Master. Every candidate must submit a thesis on a subject previously accepted by the Academic Council, showing evidence of original work. Further, if desired by the Examiners, he must submit himself for an oral or written examination on the subject of his thesis and cognate subjects.

*Doctor of Oriental Learning (D.O.L.).*—The Degree is open to one who has passed six years previously the examination for the Degree of Master of Oriental Learning and has already made substantial published contributions to learning. Every candidate must submit his work containing an original and substantial contribution to some branch of learning. Candidates who give evidence of research and ability satisfactory to the Board of Examiners and fulfil the prescribed conditions are admitted to the Degree of Doctor of Oriental Learning. If the Board of Examiners consider that the candidate is not worthy of the Degree of Doctor of Oriental Learning, but that his work is of a standard equivalent to that required for the Degree of Doctor of Philosophy, they may recommend him to the Syndicate for the grant of the Degree of Doctor of Philosophy.

*Diplomas and Literary Titles in Oriental Learning.*—Three examinations for *Proficiency*, *High Proficiency* and *Honours* respectively are held by the University in the following subjects: (1) Arabic Language and Literature. (2) Sanskrit Language and Literature. (3) Persian Language and Literature. The course extends over one year in each case, which must be spent in an affiliated institution of the University unless permission to appear as a private candidate under the prescribed rules is obtained from the University. The *Shastri* Examination is open only to those who have passed the *Visharada* or M.A. Examination in Sanskrit of the Panjab University or any other recognized equivalent examinations of other Universities. Six papers of three hours each, each paper carrying 100 marks, are set for each examination.

Candidates for *Visharada* and *Shastri* examinations are allowed the option of taking two additional papers in Hindi and those for Maulvi Alim, Maulvi Fazil, Munshi Alim and Munshi Fazil the option of taking two additional papers in Urdu, each paper carrying 50 marks.

The minimum marks required to pass are 25 in each paper and 33 per cent. in the aggregate in the case of Proficiency, 30 in each paper and 40 per cent. in the aggregate in the case

of the High Proficiency and 33 per cent. in each paper and 45 per cent. in the aggregate in the case of Honours Examinations. In the Proficiency Examination any candidate who obtains <sup>33</sup>/<sub>45</sub> per cent. of the aggregate number of marks but fails in one paper only obtaining not less than <sup>20</sup>/<sub>25</sub> marks in that paper is admitted to an examination in that paper only after about 6 months or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that paper in either of these examinations, he is deemed to have passed the Proficiency Examination.

Candidates who gain 65 per cent. or more of the aggregate marks in the Proficiency, High Proficiency and the Honours Examinations are placed in the First Division; those who gain 50 per cent. or more in the Proficiency and High Proficiency or 55 per cent. or more in the Honours Examination are placed in the Second Division and all below in the Third Division.

Diplomas conferring the Oriental Literary Titles of Maulvi Fazil, Shastri, or Munshi Fazil are granted to persons who have passed the examination for Honours in Arabic, Sanskrit or Persian respectively.

Diplomas conferring the Oriental Literary Titles of Maulvi Alim, Visharada or Munshi Alim are granted to persons who have passed the examination for High Proficiency in Arabic, Sanskrit or Persian respectively.

#### EXAMINATIONS IN MODERN INDIAN LANGUAGES

Three examinations (*Proficiency, High Proficiency and Honours*) are held in each of the following Modern Indian Languages: (1) Urdu Language and Literature. (2) The Hindi Language and Literature. (3) The Panjabi Language and Literature. (4) The Pushto Language and Literature. The course extends over one year in each case which must be spent in an affiliated institution of the University unless permission to appear as a private candidate, under the prescribed rules, is obtained from the University.

Six papers of three hours each are set in each examination except in the Pushto Language in which four papers are set in each examination. Provided that candidates for the Honours Examination in Hindi shall be allowed the option of taking an additional paper in elementary Sanskrit. Each paper carries 100 marks. In the case of additional paper in elementary Sanskrit in the Honours Examination in Hindi the marks allotted shall be 50.

The minimum number of marks required to pass the Proficiency and the High Proficiency is 40 per cent. in each

paper, and to pass the Honours Examination a candidate must obtain 50 per cent. in each paper. If a candidate obtains 33 per cent. marks in the additional paper in elementary Sanskrit in the Honours Examination in Hindi, the fact of his having passed in the additional paper shall be mentioned on his certificate. In the Proficiency Examination any candidate who obtains 45 per cent. of the aggregate number of marks but fails in one paper only obtaining not less than 25 marks in that paper is admitted to an examination in that paper only after about six months, or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that paper in either of these examinations, he is deemed to have passed the High Proficiency Examination.

### COURSES OF STUDY AND DEGREES LEADING TO PROFESSIONS

#### LAW

*Preliminary Examination.*—The course extends over one year and is open to graduates in the Faculty of Science or of Arts or of Commerce or of Agriculture of this or of any other recognized University. The Examination is held by the Principal of the Law College, Lahore, who has the power to retain such candidates as fail to attain the required standard of efficiency. The following are the subjects of examination:— (1) Jurisprudence and Roman Law. (2) Constitutional Law (English and Indian). (3) Hindu Law, Muhammadan Law and Panjab Customary Law. (4) Law of Contract and Specific Relief.

*First Examination in Law.*—The course extends over one year and is open to graduates in the Faculty of Science or of Arts or of Commerce or of Agriculture of this or of any other recognized University after passing the Preliminary Examination conducted by the Principal of the Law College, Lahore. A candidate is required to study and be examined in the following:

- (i) Equity with special reference to Trusts and Mortgages.
- (ii) Law of Crimes including selected chapters of the Indian Penal Code.
- (iii) Law of Torts, and Law of Easements, with selected cases, English and Indian.
- (iv) Mercantile Law. Syllabus for this subject will be prescribed by the Board of Studies out of the following branches of Law; Negotiable Instruments, Sale of Goods, Partnership, Companies, Agency, Bailment Insurance, Patents and Trade Marks.
- (v) Public International Law or Conflict of Laws.

There will be one paper of 3 hours in each subject carrying a maximum of 100 marks.

A candidate who obtains 40 per cent. of the maximum number of marks allotted to each subject and 50 per cent. in the aggregate is qualified for a pass in the Second Class, those obtaining 65 per cent. in the aggregate being placed in the First Class.

Any student who obtains 50 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about six months or if he fails to pass or present himself for that examination then, at the next annual examination, and if he passes in that subject in either of these examinations, he is deemed to have passed the First Examination in Law.

*Bachelor of Laws (LL.B.).*—The Examination is held twice a year at Lahore beginning on the 1st of May or on such other date as may be fixed by the Syndicate and in October on a date to be fixed by the Syndicate every year. The course extends over one year subsequent to passing the First Examination in Law or, subject to the sanction of the Syndicate the equivalent Law Examination of any other recognized University in India. The following are the subjects for study and examination:—

- (i) Civil Procedure and Limitation.
- (ii) Criminal Procedure and Evidence.
- (iii) Pleadings and Conveyancing.
- (iv) Panjab Land Revenue, Tenancy, Pre-emption and Alienation of Land Acts.
- (v) Minor Acts (the majority Act, the Guardian and Wards Act, the Court Fees and Suits Valuation Acts, the Registration Act, the Provincial Insolvency Act and the Stamp Act).

A course of lectures on Legal Ethics shall be delivered to the LL.B. Class of which seventy-five per cent. shall be attended by every student. No examination by the University shall be held in this subject but the attendance at the course shall be compulsory.

Five papers of 3 hours each will be set, *i.e.*, one paper in each subject, carrying a maximum of 100 marks.

A candidate who obtains 40 per cent. of the maximum number of marks allotted to each subject and 50 per cent. in the aggregate is qualified for a pass in the Second Class, those obtaining 65 per cent. in the aggregate being placed in the First Class.



Any student who obtains 50 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about six months or if he fails to pass or present himself for that examination then, at the next annual examination, and if he passes in that subject in either of these examinations, he is deemed to have passed the LL.B. Examination.

The LL.M. Examination.—The Examination is open to any person who has taken the LL.B. Degree of this University, or (subject to the sanction of the Syndicate) the equivalent law degree of any other recognized University in India, or in Great Britain or Ireland, at least two academical years before the examination. The candidate shall be examined in *one* of the following 4 alternative groups of subjects:—*Group I*: (1) Jurisprudence; (2) Constitutional Laws of England and India; (3) Public International Law; (4) Conflict of Laws; (5) Roman Law or Hindu Law or Muhammadan Law; *Group II*: (1) Land Tenures in British India; Easements and Profits; (2) Transfer Inter Vivos; Wills and Succession; (3) Equity with special reference to Specific Performance, Injunction and Trusts; (4) Hindu Law; (5) Muhammadan Law. *Group III*: (1) Law of Contract; (2) Law of Torts; (3) Partnership and Sale of Goods; (4) Law relating to Negotiable Instruments, Banking, Insurance and Trade Marks; (5) Company Law and Bankruptcy. *Group IV*: (1) Law of Crimes; (2) Law of Crimes; (3) Law of Evidence; (4) Jurisprudence and Theory of Legislation; (5) Hindu Law or Muhammadan Law. Five papers of three hours each will be set in this examination, each paper carrying a maximum number of 100 marks.

In order to pass a candidate has to obtain one-half of the maximum number of marks allotted to each paper while a candidate who obtains 75 per cent. in the aggregate is deemed to have passed the examination with 'Honours'.

*Doctor of Laws (LL.D.)*.—Any person who has passed the LL.M. Examination of this University may be admitted to the Degree of Doctor of Laws without examination provided that the Members of the Board of Studies of the Law Faculty testify to the satisfaction of the Syndicate, that since passing the LL.M. Examination, he has practised the profession of Law with repute for three years and that he is, by reason of his eminent legal attainments and his high character, a fit and proper person to receive the Degree of Doctor of Laws, and has produced an original thesis approved by the Members of the Board on a subject connected with Law.

*Diploma in Conveyancing and Pleadings*.—The Examination is held annually on such date as may be fixed by the

Syndicate. The Examination is open to any person who (a) has passed the Bachelor of Laws Examination of the University of the Panjab or of any other recognized University in India or has been admitted as a Barrister in England or Ireland or has attended the prescribed course of lectures delivered in the Law College, Lahore, for the Bachelor of Laws Examination of the Panjab University and (b) has attended not less than three-fourths of the lectures delivered to his class during the year preceding the Examination or is a female candidate.

The candidates are expected to have a knowledge of Conveyancing and Pleadings, both in English and Urdu. Two papers of three hours each are set in this Examination. Each question paper carries a maximum number of 100 marks. Every candidate who obtains at least 100 marks in both the papers combined is deemed to have passed the Examination.

A student who having attended the prescribed number of lectures, does not appear at the Examination for sufficient cause, or having appeared at the Examination has failed, is allowed to appear at the next Examination and the one after the next without attending a fresh course of lectures.

### MEDICINE

*Bachelor of Medicine and Bachelor of Surgery.*—The course extends over five academical years subsequent to the Intermediate Examination in Science (with the Medical Students' group of subjects) of this University, or any other recognized examinations of other Universities. There are four Professional Examinations for the Degree called the First, Second, Third and Final Examinations for the Degree of M.B.B.S.

*First Professional Examination.*—The course extends over two academical years after the Intermediate Examination in Science with Medical Students' group or any other recognized equivalent examination, the following being the subjects for study and examination: Anatomy and Physiology. In each subject there will be one written paper of three hours' duration and an oral and practical examination, each subject carrying 300 marks.

The minimum for a pass is 50 per cent. in each subject both in the written, oral and practical parts of the examination, 80 per cent. of the marks in any subject entitling one for a pass with distinction in that subject.

*Second Professional Examination.*—The course extends over one year preceding the examination and is open to candidates who have passed the First Professional Examination. The subject of the examination is Materia Medica including Pharmacology. Three hundred marks are allotted to this subject.

50 per cent. both in the written, practical and oral examinations will qualify a candidate for a pass, 80 per cent. of the marks entitling him for a pass with distinction.

*Third Professional Examination.*—The course extends over one year preceding the examination and is open to candidates who have passed the Second Professional Examination, the following being the subjects for study and examination: (1) Forensic Medicine and Toxicology, (2) Hygiene, (3) Pathology, including Parasitology. In each subject there will be one written paper of 3 hours' duration. The following is the scale of marks allotted to each subject:—

	Marks
1. Forensic Medicine and Toxicology	.. 150
2. Hygiene	.. 150
3. Pathology including Parasitology	.. 300

The minimum for a pass is 50 per cent. in each subject both in the written and the oral, 80 per cent. of the marks in any subject entitling one for a pass with distinction in that subject.

A candidate who has passed in the subject of Pathology in the Second Professional Examination under the old regulations shall be exempted from appearing in the subject of Pathology in the Third Professional Examination.

A candidate who obtains 50 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 40 per cent. of the marks in that subject is admitted to an examination in that subject only at any subsequent examination, or if he fails to pass or present himself in that examination, then at the next annual examination (provided that subsequent to his last failing he has attended one course of lectures and practical work and has passed the College Sessional Examination in that subject) and if he passes in that subject in either of these examinations, he is deemed to have passed the Third Professional Examination but is not eligible for distinction in any subject.

*The Final Professional Examination.*—The course of study extends over one academical year subsequent to passing the Third Professional Examination, the following comprising the subjects for study and examination: Part A—(1) Medicine and Diseases of Children (400 marks), (2) Midwifery and Gynæcology (400 marks), Part B.—(1) Surgery and Operative Surgery (400 marks), (2) Diseases of the Eye, Ear, Nose and Throat (400 marks). In each subject there is one paper of three hours' duration and an oral, clinical and practical examination.

The examination is held twice a year in the months of April and October. A candidate may present himself for the

whole examination at one time or may take the examination in two parts A and B, provided that the whole examination must be completed within the period of 19 months.

50 per cent. of the aggregate marks assigned to each subject and to the Clinical Examination and 40 per cent. of the aggregate assigned to the written and oral examinations are required to pass this examination.

80 per cent. in any subject qualifies a candidate for distinction in that subject provided that no candidate who does not pass in all subjects of the examination at one time shall be declared to have passed with distinction in any subject.

Candidates who complete their curriculum in the minimum period of 5 years, pass each of the professional examinations at the first attempt and obtain an aggregate of 70 per cent. of the available marks in each subject are at the time of graduation awarded M.B.B.S. degree "with Honours".

*Special Final M.B.B.S. Examination.*—A Special Examination for the Degree of M.B.B.S. is arranged for candidates who desire to sit for the same and who are Licentiates in Medicine and Surgery of the University of the Panjab and produce certificates (1) of having, subsequently to the systematic course of lectures on Midwifery, attended for three months the practice of a recognized Maternity Hospital or Ward during one month of which they have performed the duties of intern students, and (2) of having attended twenty cases of labour under adequate supervision.

Every candidate is required to study and be examined in the following: (1) Pathology including Parasitology (written, practical and oral) (300 marks). (2) Diseases of the Eye, Ear and Throat (written, clinical and oral) (150 marks). (3) Medicine (clinical) (100 marks), and (4) Surgery (clinical) (100 marks).

The minimum for a pass is 33 per cent. in each subject, and 50 per cent. in the aggregate, those obtaining 80 per cent. in any subject being declared to have passed with Honours in that subject.

A candidate who obtains 50 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. of marks in that subject, is admitted to an examination in that subject only in the following year or the year after that and if he passes in that subject in either of these examinations, he is deemed to have passed the examination but is not eligible for Honours in any subject.

*Master of Surgery (M.S.).*—The Examination is open to candidates who, subsequent to passing the M.B.B.S. Examination of this University, or, of any other recognized university

in India considered equivalent for this purpose by the Syndicate, have completed: (a) 4 years' continuous surgical practice, *or* (b) 3 years' post-graduate attendance at a hospital recognized by the University for the purpose, *or* (c) 2 years' post-graduate attendance at a hospital recognized by the University for the purpose, provided the Final M.B.B.S. has been passed 'with Honours' in Surgery, *or* (d) 4 years' continuous medical practice subsequent to passing the L.M.S. Examination. The examination will be in any *one* of the three following branches:—

Branch I.—General Surgery including Gynæcology, Surgical Pathology, Surgical Anatomy, a clinical examination, Operations on the Dead Body and an oral examination.

Branch II.—General Surgery, Ophthalmology, Anatomy, and Physiology of the Eye including Physiological Optics, Pathology of the Eye, a clinical examination and an oral examination.

Branch III.—Ophthalmology, Laryngology, Otology and Rhinology, Anatomy and Physiology of the Ear, Nose and Throat, Pathology of the Ear, Nose and Throat, a clinical examination and an oral examination.

Further a candidate may forward one month before the commencement of the examination a thesis embodying the result of his own independent research and having definite relation to General Surgery and Gynæcology (Branch I), Ophthalmology (Branch II) or Laryngology, Otology and Rhinology (Branch III) indicating in what particular respects the thesis appears to him to advance surgical knowledge or practice. If the thesis is judged of sufficient excellence by the examiners, the candidate may be exempted from a part or from the whole of the written examination but in all cases he shall be submitted to the clinical, practical and oral examinations.

*Doctor of Medicine (M.D.).*—The examination is open to those who have passed the M.B.B.S. Examination of the University of the Panjab or of any other recognized University in India considered equivalent for this purpose by the Syndicate and have, subsequent to graduation, completed four years, continuous medical practice or three years' post-graduate attendance at a hospital recognized by the University for the purpose, or two years' post-graduate attendance at a hospital recognized by the University for the purpose, provided the candidate has passed the Final M.B.B.S. with Honours in Medicine. The following are the subjects for study and examination: (1) The Principles and Practice of Medicine including Therapeutics. (2) Medical Pathology and Bacteriology, (3) One of the following special subjects: (a) Psychiatry and Neurology,

(b) Tropical Diseases and Helminthology, (c) Pediatrics (Diseases of children), (d) Advanced Physiology and Biochemistry, (e) Advanced Pharmacology and Therapeutics, (f) Venereal Diseases and Dermatology, (g) Advanced Pathology and Bacteriology, (h) Midwifery and Diseases of Women. The examination will consist of written, oral and either clinical or practical tests.

A candidate whose thesis has been accepted but fails in the examination, may be re-admitted to a subsequent examination not earlier than one year after the date of his failure.

*Diploma in Laryngology and Otology (D.L.O.).*—The Examination is open to a graduate of the University of the Panjab in the Faculty of Medicine, or (subject to the sanction of the Syndicate) of any other recognized University. The Examination consists of 2 parts, Part I and Part II. The Examination in Part I is held in April and October while in Part II in June and December or at such time as the Syndicate may determine.

Part I comprises the Anatomy, Embryology and Physiology of the Ear, Nose, Pharynx, Larynx, Trachea, Bronchi and Oesophagus and Elementary Acoustics. The Examination is written, oral and practical. Part II comprises the Medicine, Surgery and Pathology of Ear, Nose, Pharynx, Larynx, Trachea, Bronchi and Oesophagus. The examination is written, oral, practical, clinical and operative, and includes the recognition and use of special instruments and appliances.

*Bachelor of Dental Surgery (B.D.S.).*—The course extends over four years in the case of those who have passed the Intermediate Examination in Science (with the Medical Students' group of subjects of this University or of any other recognized University in India and 2 years in the case of those who have passed the Second Professional Examination for the Degree of M.B.B.S. There are four Professional Examinations for the Degree called the First, Second, Third and the Final Examinations for the Degree of B.D.S.

*First Professional Examination.*—The course extends over one academical year after the Intermediate Examination in Science with Medical Students' group or any other recognized equivalent examination, the following being the subjects for study and examination: (1) Anatomy, (2) Physiology and Histology. In each subject there is one written paper of three hours' duration and an oral and practical examination, each subject carrying 150 marks. The minimum for a pass is 50 per cent. in each subject both in the written, oral and practical parts of the examination.

*Second Professional Examination.*—The course extends over one year preceding the examination and is open to candidates who have passed either the First Professional Examination for the Bachelor of Dental Surgery of the University of the Panjab or the First Professional Examination for the Degree of Bachelor of Medicine and Bachelor of Surgery of the University of the Panjab, or an examination considered equivalent for this purpose by the Syndicate on the recommendation of the Medical Faculty. The following comprise the subjects for study and examination: (1) General and Dental Materia Medica, (2) General Pathology and Bacteriology, (3) Human and Comparative Dental Anatomy. There is one paper of three hours' duration in each subject and an oral and practical examination, each subject carrying 150 marks. The minimum for a pass is 50 per cent. in each subject both in the written, oral and practical parts of the examination.

*Third Professional Examination.*—The course extends over one year preceding the examination and is open to candidates, who have passed either the Second Professional Examination for the Bachelor of Dental Surgery Degree of the University of the Panjab or the Second Professional Examination for the Degree of Bachelor of Medicine and Bachelor of Surgery of the University of the Panjab, or an examination considered equivalent for this purpose by the Syndicate of any other recognized University in India. The following are the subjects for study and examination: (1) Medicine, (2) Surgery, (3) Dental Surgery and Pathology with Dental Bacteriology. In each subject there is one written paper of 3 hours' duration and an oral and practical or clinical examination, each subject carrying 150 marks. The minimum for a pass is 50 per cent. in each subject both in the written and oral and the practical or, clinical parts of the examination.

*The Final Professional Examination.*—The course of study extends over one academical year subsequent to passing the Third Professional Examination for the Bachelor of Dental Surgery of the University of the Panjab, the following comprising the subjects for study and examination: Part A.—(1) Dental Prosthetics, including Crown and Bridge Prosthesis, (2) Dental Metallurgy. Part B.—(1) Operative Dentistry and Dental Radiology, (2) Oral Surgery and Orthodontia. In each subject there is one written paper of 3 hours' duration and an oral and practical examination, each subject carrying 200 marks. The minimum for a pass is 50 per cent. in each subject both in written, oral and practical parts of the examination.

Eighty per cent. of the marks in any subject qualifies a candidate for "distinction" in that subject provided that no

candidate who does not pass in all the subjects of the Final Professional Examination at one and the same time shall be declared to have passed with "distinction" in any subject.

### AGRICULTURE

*Bachelor of Science (Agriculture): First Examination.*—The course extends over two academical years subsequent to Matriculation or any other recognized equivalent examination and a candidate is required to study and be examined in the following subjects: (1) Agriculture (300 marks), (2) Physics and Chemistry (150 marks), (3) Botany and Anatomy and Physiology of Domestic Animals (150 marks), (4) Mathematics with Land Surveying (100 marks), and (5) English (100 marks). In subjects (1), (2) and (3) there will be two papers and a practical examination in each. In subjects (4) and (5), there will be only two papers.

Any candidate who is a member of the Panjab University Training Corps and has attended 66 per cent. of the parades held has the option of taking Military Science as an additional optional subject carrying 50 marks.

The minimum for a pass is 40 per cent. in the aggregate and in the written portion in the subject of Agriculture, 33 per cent. in the practical portion in the subject of Agriculture, and 33 per cent. in the written portion of the remaining subjects, 25 per cent. in the practical portion in subjects other than Agriculture and 33 per cent. in Military Science. 65 per cent. or more of the aggregate qualifies one for a First Class, those obtaining not less than 50 per cent. are placed in the Second Class. The marks obtained in Military Science are not added to the total.

Any student who obtains 45 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject is admitted to an examination in that subject only after about six months or if he fails to pass or present himself for the examination then, at the next annual examination, and if he passes in that subject, in either of these examinations, he is deemed to have passed the First Examination in Agriculture. The candidate to whom this concession is granted must continue to read in a college and is allowed to read for the Degree of Bachelor of Science (Agri.) but is not eligible for a scholarship on passing the First Examination.

*Final Examination.*—The examination consists of 2 parts, and is open to any students who (1) has been enrolled during the academic year preceding the examination for Part I, and



2 academic years preceding the examination for Part II, in a college affiliated to the University in the Faculty of Agriculture, (2) in the case of Part I has passed not less than one academic year previously the First Examination in Agriculture or the B.Sc. of the Panjab University having taken Physics, Chemistry, and Biology in the Intermediate Science Examination and in the case of Part II has passed not less than one academic year previously the Part I examination, and if a compartment student has previously passed the complete examination for Part I of the Final Examination in Agriculture, and (3) has attained a sufficient standard of merit in examinations held by the College in the qualifying subjects, *i.e.*, Agricultural Engineering and Elementary Veterinary Science. The following are the subjects for study and examination: (1) English (2 papers) (150 marks), (2) any *two* of the following to be taken as principal subjects: Agriculture and Economics (3 papers and practical in Agriculture) (400 marks), Chemistry and Agricultural Chemistry (2 papers and practical) (300 marks), Horticulture and Applied Botany (2 papers and practical) (300 marks), Agricultural Zoology—Entomology (2 papers and practical) (300 marks) and *two* subsidiary subjects (one paper and practical in each) (150 marks each) which shall be the two other subjects in the above list and which have not been offered as the principal subjects. One written paper and the connected practical of each of the two principal subjects and of one subsidiary subject from Part I while English and the remaining portions of the two principal subjects, both written and practical and of the second subsidiary subject form Part II of the examination.

These examinations shall be held at such places as may be appointed by the Syndicate twice a year beginning from 15th April or such other date as may be fixed by the Syndicate and in September on a date to be fixed by the Syndicate every year. Every candidate has the option of appearing in the examination either in April or in September but he shall appear in all the subjects when he takes the examination for the first time.

Any candidate who is a member of the Panjab University Training Corps and has attended 66 per cent. of the parades held has the option of taking Military Science as an additional optional subject carrying 50 marks with Part II of the examination.

The minimum number of marks required to pass this examination whether taken in April or September is 40 per cent. in each subject both in the written and practical portions of the examination separately and 45 per cent. in the aggregate. Candidates who obtain 65 per cent. or more in the aggregate are placed in the First Division, those obtaining not less than 50

per cent. in the Second Division. The marks obtained in Military Science are not added to the total.

Any student who obtains 45 per cent. of the aggregate number of marks in either Part I or Part II as the case may be but fails in one subject only obtaining not less than 25 per cent. in that subject is promoted to the next higher class and is admitted to a subsequent examination in that subject only on payment of the same fee as for the whole examination on each occasion, and if he passes in that subject in either of these examinations he is declared to have passed the Bachelor of Science (Agriculture) Examination but is ineligible for a scholarship.

If a candidate fails in the examination but secures not less than 45 per cent. marks in a subject or subjects, he shall, if he so desires, be given exemption from appearing in such subject or subjects in a subsequent examination. But in order to be deemed to have passed the examination he shall secure not less than 40 per cent. marks in the remaining subject or subjects and 45 per cent. in the aggregate in a subsequent examination. Provided further that the examination shall be completed within 19 months from the date of his passing in one or more subjects.

*Master of Science (Agriculture).*—The examination is open to any candidate who has passed not less than 2 years previously the B.Sc. in Agriculture or the general B.Sc. Examination with Honours in Chemistry, Botany or Zoology or the M.Sc. Examination with the necessary qualifications of the Panjab University.

A candidate is required to present a thesis being the result of an original research in some science applied to Agriculture, and which has been conducted under the direction of a teacher approved by the Board of Studies in Agriculture and further to undergo a written, oral and practical examination on the special branch of the subject chosen for research. The following are the subjects permitted for the Degree: (1) Crop Husbandry, (2) Dairying (including Animal Breeding and Animal Feeding), (3) Agricultural Economics, (4) Genetics and Biometry, (5) Mycology and Agricultural Mycology, (6) Plant Physiology, (7) Horticulture (including Fruit Preservation), (8) Chemistry and Agricultural Chemistry, (9) Zoology and Agricultural Zoology, (10) Bacteriology and Agricultural Bacteriology.

The minimum for a pass is 45 per cent., the total number of marks being 700. Those who obtain 65 per cent. or more of the aggregate are placed in the First Division and those obtaining not less than 55 per cent. in the Second Division.

## TEACHING

*Bachelor of Teaching.*—The course extends over one academic year subsequent to graduation in this or any other recognized University in any Faculty other than Oriental. The examination is open also to (a) any graduate of the University of the Panjab or of Delhi who has undergone the course of training in the S.A.V. Class and after passing the S.A.V. Examination has worked as a teacher for not less than 18 months and is serving as a teacher in a school either in the Panjab or in the Province of Delhi, (b) any woman graduate of the University of the Panjab or of any other recognized university who is working as a teacher within the territorial limits of the University in a recognized school or in a four-years' institution affiliated to this University upto the Intermediate standard. The following are the subjects for study and examination: (1) The Psychological Basis of Education (100 marks), (2) School Organization and Management (100 marks), (3) Methods of Teaching (General) (100 marks), (4) Methods of Teaching English (100 marks), (5) Methods of Teaching (one Selected subject) (100 marks), (6) History of Education (100 marks), (7) Practical Skill in Teaching (100 marks). The examination is conducted by means of written papers and by a practical examination in the Practice of Teaching.

The minimum for a pass is 40 per cent. of the marks in the Practice of Teaching and 33 per cent. in each other subject and 40 per cent. in the aggregate. A candidate who gains 65 per cent. of the total number of marks is placed in the First Division and those obtaining not less than 55 per cent are placed in the Second Division, the aggregate number of marks being 700.

A candidate who fails in only one subject or in the practical test, may be permitted to appear in the subject in which he fails or in the practical test as the case may be about the end of September of the same year, or, if he fails to pass or present himself for the examination then, at the next University examination in April on payment of a fee of Rs. 30 on each occasion, and if he passes in that subject or in the practical test in either of these examinations, he shall be deemed to have passed the examination for the Degree of Bachelor of Teaching.

Provided further that any candidate who fails in April in the examination as a whole is permitted to appear in the supplementary examination to be held at the end of September.

## COMMERCE

*Bachelor of Commerce.*—The examination is held twice a year in Lahore or the 1st of May or on such other date as

may be fixed by the Syndicate and in October or a date to be fixed by the Syndicate every year. The course extends over three academic years and is open to students who have passed not less than 3 years previously the Intermediate Examination in either the Arts or Science Faculty of the Panjab University or of Delhi University or if a resident of the Panjab, the Intermediate Examination in either the Arts or Science Faculty of the Aligarh Muslim University or of the Benares Hindu University, or the Intermediate Examination in Commerce of the Board of High School and Intermediate Education, Rajputana, Central India, Gwalior and Ajmer.

The following are the subjects for study and examination:

(1) Commercial Law and Industrial and Commercial Organization, (2) Economic Development of India, Great Britain and Japan. One of the following Groups: *Group I*—Trade and Transport: (a) Trade and Transport, (b) Accounting, Banking and Currency, or *Group II*—Banking: (a) Advanced Banking, and Currency and Co-operation, Public Finance and Insurance, (b) Accounting and General Trade, or *Group III*—Accountancy: (a) Advanced Accountancy and Auditing, (b) Banking and Currency and General Trade. Each subject carries 200 marks. In addition to the above an additional Optional paper in Shorthand (50 marks); the minimum speed for pass in this being 80 words per minute.

Besides the above subjects the examination for which shall be held at the end of the third year of the course there shall be a preliminary examination in English at the end of the second year of the course.

The minimum for a pass is 40 per cent. in each subject. 65 per cent. or more of the aggregate in the Pass papers qualifies one for the First Division and not less than 50 per cent. for the Second Division.

Any student who obtains 45 per cent. of the aggregate number of marks but fails in one subject only obtaining not less than 25 per cent. in that subject, is admitted to an examination in that subject only after about six months or if he fails to pass or present himself then, at the next annual examination, and if he passes in that subject in either of these examinations, he is deemed to have passed the Bachelor of Commerce Examination.

*Diploma in Commerce.*—The Examination is open to a student who has passed the Matriculation Examination of the Panjab University or any other examination recognized as equivalent thereto by the Syndicate or by the Government of India under the Registered Accountants Rules, and, has been enrolled in a College affiliated to the University of the Panjab

in the Faculty of Commerce during the three academic years preceding the Examination.

The Examination is held in the second half of April on the date fixed by the Syndicate. Every candidate is required to take up the following subjects: (1) Accountancy, (2) Commercial Arithmetic, (3) English and Commercial Correspondence, (4) Elementary Principles of Commercial Law, and (5) General Commercial Knowledge.

English is the medium of examination in all subjects. The minimum number of marks required to pass this examination is 40 per cent. in each subject. Candidates who gain 65 per cent. of the aggregate number of marks or more are placed in the First Division; those who gain not less than 50 per cent. in the Second Division; and all below, in the Third Division.

### ENGINEERING

*The First Examination in Engineering.*—The examination is held twice a year at Lahore in the months of May–June and in the month of October or on such other dates as may be fixed by the Syndicate. The course extends over one academic year subsequent to passing the Intermediate Science or Intermediate Arts Examination (with Mathematics, Physics and Chemistry as elective subject) of the University of the Panjab or any other examination recognized for purposes of admission to the Faculty of Engineering. The following are the subjects for study and examination:—

*Group A.*—Mathematics and Mechanics, *Group B.*—Engineering Drawing and Design and Practical Geometry, one written paper, and one practical and *viva voce* examination in Engineering, Drawing and Design and Geometry (candidates' note books, plans, drawings, etc., done during the year shall be taken into account in marking), *Group C.*—Physics and Chemistry: (a) Physics and Electrical Engineering, (b) Applied Chemistry and Chemical Engineering, *Group D.*—Surveying. *Group E.*—Practical and *viva voce* examinations in Physics and Electrical Engineering, Applied Chemistry and Chemical Engineering, Applied Mechanics and Surveying (candidates' laboratory note books, file books, plans, drawings, etc., done during the year shall be taken into account in marking). In each group, there are 2 papers of 100 marks each. 33 per cent. of marks in each group and 40 per cent. in the aggregate qualifies a candidate to pass the examination. Any student who obtains 45 per cent. of the aggregate number of marks but fails in one group only obtaining not less than 25 per cent. of the marks in that group, is admitted to an examination in that group only at the next or any subsequent bi-annual examination on payment of the same fee as for the whole examination on each

occasion for which he may apply to sit, and if he passes in that group in either of those examinations, he is deemed to have passed in the First Examination in Engineering. Candidates to whom this concession is granted are allowed to read for the Second Examination in Engineering.

*The Second Examination in Engineering.*—The examination is held twice a year at Lahore in the months of May–June and in the month of October or on such other dates as may be fixed by the Syndicate. The course extends over one academic year after passing the First Examination in Engineering, or any other examination recognized as equivalent thereto, the following being the subjects for study and examination:—

*Group A.*—Mathematics (2 papers). *Group B.*—Strength of Materials and Theory of Structures and Hydraulics (2 papers). *Group C.*—Mechanism and Heat Engines (2 papers). *Group D.*—Engineering Drawing and Design (one paper, one practical and *viva voce* examination in Engineering Drawing and Design) (candidates' note books, plans, drawings, etc., done during the year, shall be taken into account in marking). *Group E.*—Electrical Engineering, Direct and Alternating Current (2 papers). *Group F.*—Practical and *viva voce* examination in Strength of Materials and Theory of Structures, Heat Engines, Electrical Instruments and Testing and Electrical Machinery and Equipment (candidates' laboratory note books, field books, plans, drawings, etc., done during the year, shall be taken into account in marking). 100 marks shall be allotted to each written paper, 100 marks for the practical and *viva voce* examination in Group D, and 200 marks for the practical and *viva voce* examinations in Group E.

Any student who obtains 55 per cent. of the aggregate number of marks but fails in one group only obtaining not less than 25 per cent. of the marks in that group, is admitted to an examination in that group only at the next or any subsequent bi-annual examination on payment of the same fee as for the whole examination on each occasion for which he may apply to sit, and if he passes in that group in either of those examinations, he is deemed to have passed the Second Examination in Engineering.

Candidates to whom this concession is granted are allowed to read for the Final Examination in Engineering.

The examination shall be held twice a year at Lahore in the months of May–June and in the month of October or on such other dates as may be fixed by the Syndicate.

*The Final Examination in Engineering.*—The course extends over one academic year after passing the Second Examination in Engineering and consists of three branches: (a) Civil

Engineering, (b) Mechanical Engineering and (c) Electrical Engineering, the subjects for study and examination of the three branches being:

(a) *For Civil Engineering:—*

*Group A.*—Mathematics (2 papers), *Group B.*—Irrigation, Water-supply, Drainage Engineering and Hydraulics (2 papers), *Group C.*—Strength of Materials and Theory of Structures (2 papers), *Group D.*—Building Construction, Sanitary Engineering, Road, Railway, and Miscellaneous Engineering and Earthworks (2 papers), *Group E.*—Surveying and Science (Geology, Mineralogy, Chemistry and Bacteriology of Water, Sewage, Atmosphere, and of Engineering and Building Materials) (2 papers), *Group F.*—Engineering Drawing and Design, Specifications. Practical and *viva voce* examinations. (Candidates' note books, plans, drawings, etc., done during the year, shall be taken into account in marking.) *Group G.*—Practical and *viva voce* examination in Strength of Materials and Theory of Structures, Hydraulics, Surveying, Setting-out and Measurements, Estimates, Bills, Quantities and Accounts. (Candidates' laboratory note books, field books, plans, drawings, etc., done during the year, shall be taken into account in marking.)

(b) *For Mechanical Engineering:—*

*Group A.*—Mathematics (2 papers), *Group B.*—Mechanism and Hydraulics (2 papers), *Group C.*—Strength of Materials and Theory of Structures (2 papers), *Group D.*—Economics of Engineering (2 papers), *Group E.*—Heat Engines (2 papers), *Group F.*—Engineering Drawing and Design. Practical and *viva voce* examination. (Candidates' note books, plans, drawings, etc., done during the year, shall be taken into account in marking.) *Group G.*—Practical and *viva voce* examination in Strength of Materials and Theory of Structures, Hydraulics and Heat Engines. (Candidates' laboratory note books, field books, plans, drawings, etc., done during the year, shall be taken into account in marking.)

(c) *For Electrical Engineering:—*

*Group A.*—Mathematics (2 papers), *Group B.*—Theory of Electrical Machinery (2 papers), *Group C.*—Electrical Generation, Transmission and Distribution (2 papers), *Group D.*—Electrical Traction, and Electrical Communications (2 papers), *Group E.*—Heat Engines, Strength of Materials and Theory of Structures (2 papers), *Group F.*—Engineering Drawing and Design. Practical and *viva voce* examination. (Candidates' note books, plans, drawings, etc., done during the year, shall be taken into account in marking.) *Group G.*—Practical and *viva*

*voce* examinations in Electrical Instruments and Testing Electrical Machinery and Equipment and Electrification Schemes. (Candidates' laboratory note books, field books, plans, drawings, etc., done during the year, shall be taken into account in marking.)

Every candidate is required to take up the subjects prescribed for one of the three branches.

Hundred marks are allotted to each written paper and 200 marks for the practical and *viva voce* examination in Group F and 200 marks for the practical and *viva voce* examinations in Group G.

The minimum for pass is 40 per cent. in each group and 50 per cent. in the aggregate.

Candidates who obtain 40 per cent. of the marks or more in each group and 50 per cent. or more in the aggregate are placed in the Second Division, those who obtain 40 per cent. or more in each group and 60 per cent. or more in the aggregate are placed in the First Division, and those who obtain 40 per cent. or more in each group and 70 per cent. or more in the aggregate are declared to have passed with Honours.

Any student who obtains 55 per cent. of the aggregate number of marks but fails in one group only obtaining not less than 25 per cent. of the marks in that group, is admitted to an examination in that group only at the next or any subsequent bi-annual examination on payment of the same fee as for the whole examination on each occasion for which he may apply to sit, and if he passes in that group in either of those years he is deemed to have passed the Final Examination in Engineering.

In addition to and subsequent to passing the examination, before being admitted to the Degree of Bachelor of Science in Engineering, a candidate in the Civil Engineering Branch shall be required to carry out practical designs, specifications, quantities and estimates, a civil engineering project, and surveys, under the direction and supervision of the Principal of the affiliated Engineering College in which he is enrolled. The period of this practical work shall occupy at least five months and not more than seven months. The candidate will work under the direction of the Principal and will receive supervision, guidance and help for his work from the Principal and Staff of the College, similar to that which a junior engineer may expect to receive from the engineer under whom he may be working. The work done by the candidate shall be examined by University Examiners. No marks will be awarded, but, to pass, the candidate shall be required to acquit himself, to the satisfaction of the Examiners, in the work he submits, to such a standard as might be expected of the work of a competent junior engineer beginning his career.



The period actually occupied by a candidate on the practical work subject of this Regulation, as certified by the Principal, will be deemed to be and count as "approved practical training".

In addition to passing the Final Examination, a candidate is required to have spent two years undergoing approved Practical Training in a recognized workshop, or on recognized engineering works and on producing certificates of having undergone such a period of approved practical training and made satisfactory progress therein and having attained a full age of 22 years, the successful candidate is admitted to the Degree of Bachelor of Science in Engineering.

### Examination Fees

#### *Matriculation and School Leaving Certificate Examination*

Rupees 15 from students of recognized schools and Rs. 25 from private candidates; female private candidates being required to pay Rs. 3 per subject. An additional fee of Rs. 2 is charged from candidates (including private) taking up one or more Science subjects.

<i>Oriental Faculty.</i>	Rs.
Intermediate Examination .. ..	10
B.O.L. .. ..	15
M.O.L. .. ..	40
D.O.L. .. ..	100
P.H.D. .. ..	200

#### *Diploma and Literary Titles in Oriental Languages.*

Proficiency Examination .. ..	7
High Proficiency .. ..	10
Honours Examination .. ..	15

#### *Examination in Vernacular Languages.*

Proficiency Examination .. ..	7
High Proficiency .. ..	10
Honours Examination .. ..	15

#### *Faculty of Arts.*

Intermediate Examination .. ..	25
Private Candidates .. ..	30

[An additional fee of Rs. 3 is charged in the case of candidates (including private) taking up a Science subject.]

			Rs.
B.A.	..	..	35
Private Candidates	..	..	40

[An additional fee of Rs. 5 is charged in the case of candidates (including private) who take up a Science subject and of Rs. 20 in the case of candidates appearing for Honours in any subject.]

M.A.	..	..	60
Private Candidates	..	..	65
D.Litt.	..	..	500
B.T.	..	..	30

### *Faculty of Science.*

F.Sc.	..	..	30
Private Candidates	..	..	35
B.Sc.	..	..	45

(An extra fee of Rs. 20 is charged from candidates appearing for Honours in any subject.)

Private Candidates	..	..	50
M.Sc.	..	..	75
Private Candidates	..	..	80
D.Sc.	..	..	500

### *English only.*

Matric, Inter or B.A. (Half of the fee prescribed for the examination. Candidates entitled to Degree after passing the B.A. English only shall have to pay Rs. 25.)

### *Honours School.*

Preliminary Examination	..	..	10
Subsidiary Examination	..	..	10
Main Examination	..	..	50

### *Faculty of Law.*

F.E.L.	..	..	40
Private Candidates	..	..	45
LL.B.	..	..	60
Private Candidates	..	..	65
Conveyancing and Pleadings	..	..	10
Private Candidates	..	..	15
LL.M.	..	..	100
Doctor of Laws	..	..	200

Rs.

*Faculty of Medicine.*

I M.B.B.S.	..	..	..	40
II M.B.B.S.	..	..	..	20
III M.B.B.S.	..	..	..	40
Final M.B.B.S. (if the whole examination is taken at a time)	..	..	..	60
Final M.B.B.S. (if taken in parts) for each part	..	..	..	40
Special M.B.B.S.	..	..	..	50
M.D.	..	..	..	200
M.S.	..	..	..	200

*B.D.S.*

I Professional	..	..	..	40
II Professional	..	..	..	40
III Professional	..	..	..	40
Final Professional	..	..	..	60

*Agriculture.*

F.Sc. 1st year	..	..	..	10
F.Sc. 2nd year	..	..	..	20
F.Sc. Full Examination	..	..	..	30
Final B.Sc. Part I	..	..	..	20
Final B.Sc. Part II	..	..	..	25
Final B.Sc. (subsidiary subject)	..	..	..	7-8
Final B.Sc. (For both parts)	..	..	..	60
M.Sc.	..	..	..	75
Private Candidates	..	..	..	80

*Commerce.*

Bachelor of Commerce	..	..	..	35
Preliminary English	..	..	..	10
(Candidates taking up Shorthand as their optional subject shall have to pay an additional fee of Rs. 10.)				
Diploma in Commerce	..	..	..	

*Engineering.*

First Examination in Engineering	..	..	..	60
Second Examination in Engineering	..	..	..	65
Final Examination in Engineering	..	..	..	70

# Patna University

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## Introductory: Character of the University

The Patna University was established by Act XVI of 1917. The intention of this legislation was to create ultimately a central teaching University at Patna, but owing to certain difficulties the idea of having a teaching University has been given up and the Act has been amended accordingly.

## Officers and Staff of the University

### CHANCELLOR

His Excellency Sir Thomas Alexander Stewart, K.C.S.I., K.C.I.E.,  
I.C.S., Governor of Bihar.

### VICE-CHANCELLOR

Lt.-Col. Dr. Sachchidananda Sinha, D.Litt., Bar.-at-Law, M.L.A.  
(from 23-8-1936).

### REGISTRAR

Mr. Jamuna Prasad, M.A. (Cal.), B.A., M.Sc. (Cantab.)  
(from 24-7-1938).

### ASSISTANT REGISTRAR

Khan Bahadur Mirza Akhtar Hosain, M.A. (Alig.).

### DEANS

Arts	..	Mr. H. R. Batheja.
Science	..	Mr. A. S. Khan.
Law	..	The Hon'ble Sir Arthur Trevor Harries, kt., Chief Justice.
Education	..	Mr. T. R. Spiller.
Engineering	..	Mr. J. Tullis.
Medicine	..	Rai Bahadur T. N. Banerji.

### UNIVERSITY LECTURER

*Rai Bahadur Ganga Prasad Singh Lecturer in Hindi: Mr. Jagannath Rai Sharma, M.A. (B.H.U. & Pat.).*

## UNIVERSITY READERS

Prof. Phuldeo Sahay Verma, M.Sc., A.I.I.Sc. (*Sukhraj Rai Reader in Natural Science*)—Development of the Basic Chemical Industries in Bihar.

Prof. Meghnad Saha, M.Sc., D.Sc., F.R.S. (*Sukhraj Rai Reader in Natural Science*)—Nuclear Physics or Upper Atmosphere.

Dr. Rajani Kanta Das (*Banaili Reader in Indian Economics*)—Labour Problems of India with Special Reference to Bihar.

Mr. Jamuna Prasad, M.A. (Cal.), B.A., M.Sc. (Cantab.) (*University Reader*)—Psychological Study of Class Consciousness in Modern India.

## Instructional Staff

## PATNA COLLEGE

- Principal** .. Dr. Hari Chand, D.Litt. (Paris), I.E.S.
- English** .. *Professors*: Messrs. J. L. Hill, M.A. (Oxon.); F. Rahman, B.A. (Lond.); and K. Ahmad, B.A. (Cantab.).  
*Asst. Professors*: Messrs. M. T. Gulrajani, B.A. (Cantab.); B. K. Mullick, M.A. (Cal.); and S. K. Ghosh, M.A. (Pat.), B.A. (Oxon.).  
*Lecturers*: Messrs. Radha Krishna Sinha, M.A. (Pat.); and Divakar Prasad Vidyarthi, M.A. (Pat.) (*Temporary*).
- Philosophy** .. *Professors*: Rai Saheb Charu Chandra Sinha, M.A. (Cal.); Mr. Nirmalmoy Ghosh, M.A. (Cal.).  
*Asst. Professors*: Dr. D. M. Dutta, M.A. (Cal.), P.R.S., Ph.D. (Cal.); and Mr. Ganga Nath Bhattacharya, M.A. (Dacca).
- History** .. *Professors*: Dr. S. C. Sarcar, M.A. (Cal.), D.Phil. (Oxon.); and Mr. Y. J. Taraporewala, B.A. (Cantab.).  
*Asst. Professors*: Messrs. S. Hasan Askari, M.A. (Pat.); Guptaeswar Nath, M.A. (Pat.); and K. K. Dutta, P.R.S. (Cal.), Ph.D. (Cal.).  
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Hindi ..	<i>Lecturer:</i> Mr. Devakumar Sharma, Acharya Examination in Vyakarana (B.H.U.).
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Mechanical Appren- tice Dept.		<i>Superintendent:</i> Mr. K. K. Guha, M.Sc. (California).
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Foreman Instructors	Messrs. S. S. Phatakwalā, B.Sc., M.E. (Lewis.), C.I.Mech.E.; and J. C. Guha.
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Principal & Prof. of Medicine & Physician	Rai Bahadur T. N. Banarji, M.B., M.R.C.P. (Lond. and Edin.), D.T.M. & H. (Lond.).
Lecturer and Physician	Mr. S. K. Ghosh Dastidar, M.B., D.T.M., M.R.C.P. (Lond. and Edin.).
Physician	.. Lt.-Col. A. N. Bose, O.B.E., M.D., F.R.C.P. (Lond. and Edin.), M.R.C.P., D.T.M. & H., I.M.S.
Lecturer in Children's Diseases	Mr. S. M. Ghoshal, M.B. (Cal.), M.R.C.P. (Lond. and Edin.).

*Surgery*

Professor of Surgery and Surgeon	Major D. P. Bhargava, O.B.E., M.B., B.S. (Alld.), F.R.C.S., D.O.M.S., I.M.S.
Professor of Clinical Surgery	Capt. A. C. Taylor, M.A., M.B., F.R.C.S.E., I.M.S.
Lecturer in Surgery and Surgeon	Rai Saheb Capt. N. Pal, M.B., F.R.C.S.E.
Surgical Registrar, In-charge Out-patient Dept. and Venereal Diseases Ward	Mr. Ugra Pratap Sinha, M.B., B.S., F.R.C.S.E.

*Obstetrics and Gynæcology*

Professor, Obstetrician and Gynæcologist	Capt. J. D. Murdoch, I.M.S., M.B., Ch.B., F.R.C.S.E.
Lecturer, Obstetrician and Gynæcologist	Rai Bahadur A. N. Sarkar, M.B., M.R.C.O.G. (Lond.).
Obstetrical Registrar	Dr. S. D. Tewary, M.A., B.S.
Lady Doctor, Out-patients	Dr. (Mrs.) S. Madhavan, M.B., B.S.

Lady Doctor Dr. (Miss) Mary John, M.B., B.S.,  
M.R.C.O.G.

Lecturer in Leprosy Dr. A. T. Sinha, M.B.

*Ophthalmology and Otorhino-Laryngology*

Professor, Ophthalmic & Aural Surgeon to the Hospital Mr. M. Husnain, M.B., D.L.O., D.O.M.S.,  
F.R.C.S. (Edin.).

Lecturer ... Mr. Dukhan Ram, B.Sc., M.B., D.L.O.,  
D.O.M.S.

*Radiology and Electrotherapeutics*

Mr. S. K. Sahay, M.B., D.M.R.E. (Liv.), L.M. (Dub.).

*Radium Institute*

Superintendent, Radium Institute Mr. B. K. Roy, M.B., D.M.R.E. (Camb.).

Dental Surgeon .. Dr. G. Mustafa, D.E., D.F. (Paris).

*Pathology*

Professor, Bacteriologist to Govt. Lt.-Col. A. N. Bose, I.M.S., O.B.E., M.D.  
(Laus.), F.R.C.P. (Lond. and Edin.),  
M.R.C.P., D.T.M. & H.

Lecturer, Asst. Bacteriologist to Govt. Rai Sahib Capt. U. M. Gupta, M.B.,  
M.R.C.P.E., D.T.M.

Lecturer in Chemical Pathology and Second Asst. to Bacteriologist Dr. A. K. Guha, B.Sc., M.B., B.S., D.T.M.,  
M.R.C.P.

Demonstrator .. Mr. S. K. Aikat, M.B., B.S.

Asst. Chemical Pathologist Mr. A. K. Guha, M.B., B.S., M.R.C.P.  
(Edin.), M.R.C.S. (Eng.).

*Materia Medica and Pharmacology*

Professor .. Dr. B. N. Prasad, M.Sc., M.B. (Cal.),  
Ph.D. (Edin.), F.R.S.E., D.T.M.

Lecturer .. Khan Saheb M. A. Hai, M.B., B.S. (Pat.),  
M.R.C.P. (Edin.), T.D.D. (Wales).

*Forensic Medicine*

Police Surgeon and Lecturer in Medical Jurisprudence and Toxicology Rai Sahib G. B. Sahay, B.Sc., M.B., D.T.M.

*Hygiene and Public Health*

Asst. Director of Public Health and Lecturer in Hygiene	Dr. Hargobind Prasad, M.B., B.S., D.P.H., D.T.M.
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*Anatomy*

Professor	.. Rai Bahadur Sanatan Pujari.
Lecturer	.. Mr. G. K. Ghosh, B.Sc., M.B., M.Sc. (Lond.).
First Demonstrator	Mr. Masudul Haque, M.B., B.S.
Second Demonstrator	Mr. Tribani Prasad Sinha, M.B., B.S.

*Physiology*

Professor	.. Dr. B. Narayana, M.Sc., M.B. (Cal.), ph.D. (Edin.), F.R.S. (Edin.).
Lecturer	.. Mr. T. C. Gupta, M.B., B.S.
Demonstrator	.. Mr. S. S. Muhmud Shah, M.B., B.S.
Prof. in Medical Chemistry	Dr. T. N. Seth, M.Sc., Ph.D. (Cantab.).

*Organic Chemistry*

Professor	.. Dr. T. N. Seth, M.Sc., Ph.D. (Cantab.).
Junior Lecturer	.. Mr. M. N. Rudra, M.Sc.

*Biology*

Professor	.. Mr. S. S. Chaudhuri, M.A., M.Sc.
Demonstrator of Botany	Mr. R. C. Lacy, M.A., M.Sc.
Junior Lecturer in Zoology	Mr. M. A. Majid, M.Sc.

## RAJENDRA COLLEGE, CHAPRA

Principal	.. Mr. Manoranjan Prasad Sinha, M.A.
Sanskrit	.. <i>Lecturer</i> : Babu Bhuvaneshwar Prasad, M.A. (Pat.).
History	.. <i>Professor</i> : Mr. Beni Madhav Agarawala, M.A.
Hindi	.. <i>Lecturers</i> : Pt. Janardhan Prasad Jha 'Dwij', M.A. (B.H.U.); and Sj. Sheopujan Sahay.

English	..	<i>Lecturers:</i> Messrs. Ratan Chand, M.A. (Pat.); and Kameshwar Pad Ambastha, M.A.
Logic and Philosophy		<i>Lecturers:</i> Messrs. Yakub Masih, M.A. (Pat.); and Anil Kumar Ghosh, M.A.
Persian and Urdu		<i>Lecturers:</i> Messrs. Syed Iztaba Husain Rizvi, M.A. (Pat.); and Syed Ahmadi Jefray, M.A.
Mathematics	..	<i>Lecturers:</i> Messrs. Babu Upendracharya Goswami, M.Sc. (Pat.); and Akhoury Vindhyachee Prasad, M.Sc.
History	..	<i>Lecturer:</i> Mr. Babu Keshri Kishore Saran, M.A. (Pat.).
Economics	..	<i>Lecturers:</i> Messrs. Babu Harbans Lal, M.A. (B.H.U.); and Subas Chandra Ghosh, M.A.
Commerce	..	<i>Lecturer:</i> Mr. Indusekhar Jha, M.A.

## CHANDRAHARI MITHILA COLLEGE, DARBHANGA

Principal	..	Mr. Bishwa Mohan Kumar Sinha, M.A.
English	..	<i>Professors:</i> Messrs. B. R. C. Prasad, M.A. (Pat.); and B. K. P. Ambastha, M.A. (Pat.). <i>Lecturer:</i> Mr. Sisir Kumar Ghosh, M.A.
Economics	..	<i>Professor:</i> Mr. B. N. Sinha, M.A. (Pat.). <i>Lecturer:</i> Mr. Tantranath, M.A.
Philosophy and Logic		<i>Professor:</i> Mr. N. L. Palit, M.A. (Pat.).
Mathematics	..	<i>Professor:</i> Mr. A. K. Dutta, M.A. (Pat.). <i>Lecturer:</i> Mr. G. K. Patwardhan, M.Sc. (I.).
Sanskrit	..	<i>Professor:</i> Mr. H. Goswami, M.A. (Cal.).
Hindi	..	<i>Professors:</i> Messrs. J. P. Misra, M.A. (Cal.); and Subhadra Jha, M.A.
Persian and Urdu		<i>Professors:</i> Messrs. M. Q. Hosain, M.A. (pers.), M.A. (urdu) (Pat.); and S. S. Akhtar Hossain Qader, M.A.
History	..	<i>Professor:</i> Mr. Harinarayan Ghoshal, M.A. (Pat.). <i>Lecturer:</i> Mr. Shree Kant Jha, M.A.
Physical Instructor		Mr. M. Ghaus.
Chemistry	..	<i>Lecturer:</i> Mr. Sukhendra Chakrabarti, M.Sc.

Philosophy	..	<i>Lecturer:</i> Dr. Sheshodhar Datta, D.Phil.
Physics	..	<i>Lecturer:</i> Mr. Bhupendra Narayan, M.Sc.
Lab. Assistants	..	Messrs. Shyam Chandra Shrivastav, B.Sc.; and Bholanath Mitra, B.Sc.
Commerce	..	<i>Lecturer:</i> Mr. Chandradeo Thaker, M.Com.

## RAMKRISHNA COLLEGE, MADHULANI

Principal	..	Mr. M. Z. Abdin, B.A. (Lond.).
English	..	<i>Professor:</i> Mr. Ajit Kumar Chatterji, M.A. (I.).
History	..	<i>Professor:</i> Mr. Basant Lall Bhagat, M.A.
Economics	..	<i>Professor:</i> Mr. Nandeshwar Prasad, M.A.
Mathematics	..	<i>Professor:</i> Mr. Kripa Shankar Lall, M.A.
Sanskrit and Hindi		<i>Professor:</i> Mr. Satyabrata Sharma, M.A.
Persian and Urdu		<i>Professor:</i> Mr. Mangame Haque, M.A.

*(All the above appointments are provisional)*

## D. A. V. COLLEGE, SIWAN

Principal and Lecturer in Mathematics		<i>Lecturer:</i> Dr. J. L. Sharma, D.Sc.
History	..	<i>Lecturer:</i> Mr. Bankey Bihari Mishra, M.A.
Economics	..	<i>Lecturer:</i> Mr. Indradip Singh, M.A.
English and Hindi		<i>Lecturer:</i> Mr. Nagendra Nagaich, M.A.
Commerce	..	<i>Lecturer:</i> Mr. Paramahansa Rai, M.A.
Urdu and Persian		<i>Lecturer:</i> Mr. S. M. Ismail Hamdani, M.A.
Logic and Civics	..	<i>Lecturer:</i> Mr. Vidyakishore Sharma, M.A.
Sanskrit	..	<i>Lecturer:</i> Munishwaranand Giri, M.A.

*(All the above appointments are provisional)*

### Constitution of the University

The authorities and the officers of the University are: (i) The Chancellor, (ii) The Vice-Chancellor, (iii) The Registrar, (iv) The Senate which consists of 102 Fellows 21 *Ex-officio*, 8 Fellows for life, 58 representative Fellows and 15 nominated Fellows and has the entire management and superintendence over the affairs, courses and property of the University, (v) The Syndicate which consists of 19 persons and is the Executive Body of the University, and (vi) The Faculties of which there are at present seven: Arts, Science, Law, Education, Engineering, Medicine and Commerce.

### Number of Students in the University under Different Faculties, 1940

Faculty of Arts	..	..	..	5,201 <sup>1</sup>
„ Science	..	..	..	1,504
„ Commerce	..	..	..	60
„ Medicine	..	..	..	291
„ Engineering	..	..	..	105
„ Education	..	..	..	127
„ Law	..	..	..	439

### Number of Successful Students in the Different Examinations for the year 1939-40

ANNUAL	1939	1940
Matriculation	4,016	5,015
Intermediate Arts	699	711
Intermediate Science	249	260
Bachelor of Arts	362	423
Bachelor of Science	61	89
Law, Part I (July)	69	55
Law, Part II (July)	90	91
Diploma in Education	89	124
Master of Education	5	7
1st M.B.B.S. (Jan. 1939 and 1940)	34	30
2nd M.B.B.S. Part I (March)	31	36
2nd M.B.B.S. Part II (March)	31	30
Final M.B.B.S. Part I (March)	26	22
Final M.B.B.S. Part II (March)	16	21
Intermediate Examination in Civil Engineering	16	22
Bachelor of Civil Engineering	20	23
Master of Arts	85	80
Master of Science	21	18
Doctor of Medicine	2	2
Bachelor of Oriental Learning	Nil	2

## SUPPLEMENTARY

Matriculation	..	..	790	981
Intermediate Arts	..	..	182	197
Intermediate Science	..	..	52	95
Bachelor of Arts	..	..	87	85
Bachelor of Science	..	..	10	24
Law, Part I (January)	..	..	107	82
Law, Part II (January)	..	..	49	82
1st M.B.B.S. (March)	..	..	7	8
2nd M.B.B.S., Part I (September)	..	..	5	4
2nd M.B.B.S., Part II (September)	..	..	15	8
Final M.B.B.S., Part I (September)	..	..	11	15
Final M.B.B.S., Part II (September)	..	..	18	15

## Scholarships and Medals

*Research Scholarships.*—The University awards annually eight scholarships each of the value of Rs. 75 per month tenable for two years for research work to candidates who have obtained the degrees of M.A. or M.Sc. or M.B.B.S. or B.C.E. or B.Ed. or M.L. Two of the scholarships are reserved for students in the Faculty of Arts and six for those in the Faculties of Science including Medicine and Engineering. The scholars have to work under Professors of recognized colleges and are required to give the whole of their time to research work.

*Harendranath Manorama Mitra Scholarship.*—One scholarship of the value of Rs. 7 a month, tenable for two years, is awarded in alternate years to the deserving student who, after passing the I.Sc. examination, joins the B.Sc. class with Mathematics and Chemistry as his combination and who fails to secure a Government or other scholarship.

*Sir Ganesh Dutta Singh Loan Scholarship.*—Loan scholarships are granted from this Fund to permanent residents of the area within the jurisdiction of Patna University and are awarded for higher study in Medicine or in Science in India or abroad to the officers in the medical and public health services of Government and local bodies in the said area, provided that the local body concerned guarantees repayment of the loan. The loan scholarships are also awarded to Professors, Lecturers or Demonstrators, who are in the service of the Government or in the colleges which are aided from Government Funds, in the following scientific subjects, namely, Physics, Chemistry, Botany, Geology, Physiology. The value of the loan scholarships to be

given in each case, and the instalments in which it shall be paid and recovered, are determined by the Syndicate. The selected candidates are required to execute a bond in the prescribed form and to insure his life in favour of the University for a sum equal to the amount of the loan scholarship to be paid. The policy is reassigned to the candidate on his paying all the amounts due.

*Sir Ganesh Dutta Singh Trust Fund.*—Loan scholarships are granted from this Fund to candidates who are natives of, or domiciled in the Patna, Tirhut, Bhagalpore or Chotanagpur Division and are awarded for higher and special studies in India or abroad to the candidates who wish to take up the following subjects, namely: (a) any subject which is likely to help the development of Industry or Agriculture in the Province, (b) Physics, Chemistry, Botany, Geology and Mineralogy, Zoology, Physiology, Medicine, Engineering or Psychology, Military Science, Navigation or the like sciences, (c) such vocational subjects as printing or pencil-making which may help to develop useful cottage industries, and (d) the comparative study of different schools of Medicine. The value of the loan scholarships to be given in each case, and the instalments in which it shall be paid and recovered, are determined by the Vice-Chancellor, Patna University. The interest at 3 per cent. per annum is chargeable on the loan which can be waived by the Vice-Chancellor. The selected candidate is required to execute a bond on the prescribed form, to provide a surety who is to execute a surety bond pledging his immovable properties of a value not less than double of the amount of the loan and to insure his life in favour of the Vice-Chancellor for a sum equivalent to the total amount of the scholarship estimated to be paid.

There are also a number of University Medals: A gold medal and a prize of books of the value of Rs. 200 for the candidate standing first in the First Class in each subject of the M.A. and M.Sc. examinations, Gait English Medal, Shrimati Radhika Sinha Medal, the Gidhuar Gold Medal, Bakshi Ramyad Sinha Medal, Madhava Gold Medal and Prize, Shaw Memorial Medal, J. N. Chandra Gold Medal, Rabindranath Mukherjee Medal, Shrimati Ramkishori Medal, Sifton Hindi Gold Medal, Sifton Urdu Gold Medal, Macpherson Gold Medal, Jyotirmoyee Silver Jubilee Commemoration Medal, Wheeler Gold Medal, Sir Jwala Prasad Medal, Rai Saheb Ramji Das Gupta Medal, Walford Medal, Linlithgow Gold Medal and Sifton Gold Medal for Medicine, awarded to students who pass prescribed examinations and obtain the highest number of marks in a particular subject.



### Library, Museums, Laboratories, etc.

The University Library contains 31,000 volumes. There is an annual grant of Rs. 6,600.

The Trustees of the Bayley Memorial Library Fund transferred a sum of Rs. 96,049-9-0 (50,000 Government Grant *plus* Rs. 46,049-9-0 realized subscriptions) to the University Library on certain conditions which were accepted by the Syndicate. Out of this sum Rs. 3,000 have been allotted for the purchase of books this year.

The Reading Room of the Library is used by readers throughout the day.

### Provision for Research

The Regulations, with a view to encourage research in Vernacular Literature and Languages and foster their growth, authorize the Syndicate to provide grants, prizes or scholarships for (a) Critical editions of early vernacular texts, (b) Historical investigation of the origin of vernacular literatures and their early developments, and (c) Philological investigations of Indian Vernaculars and their dialects.

The Senate has recently provided Rs. 15,000 in the annual budget for research work. A scheme for research work is under consideration of the University authorities at present.

There are University Readerships to which appointments are made by the Chancellor on the recommendations of the Syndicate and the Senate. The following are the endowed Readerships namely:—(1) The Banaili Readership in Indian Economics, (2) The Sukh Raj Roy Readership in Natural Science, (3) The Ramdin Readership in Hindi. Each Reader is entitled to an Honorarium of Rs. 600 for delivering a course of not less than 6 lectures on an approved subject.

### Associations in the University

1. Patna University Athletic Club.
2. Patna University Training Corps.
3. Patna University Students' Information Bureau.
4. Patna University Debating Society.

### Publication and Extension Work

The Lectures of the University Readers are published by the University at its own cost. The following lectures have so far been published:—(1) The Indian Fiscal Problem, (2) The Place of Partial Differential Equations in Mathematical Physics, (3) Magadhan Literature, (4) The Moghul Administration,

(5) Nadir Shah in India, (6) The Glories of Magadha, (7) Recent Investigations concerning the Constitution of Matter, (8) The Main Currents of Mahratta History, (9) Early Inscriptions of Bihar and Orissa, (10) Comparative Colonial Policy, (11) Educational Ideas and Institutions in Ancient India, (12) The Value of Scientific and Intuitive Thought in the Advance of Modern Medicine, (13) Economics of Protection in India, (14) Principles and Methods of Anthropology, (15) The Rural Economy of India, (16) Some Aspects of Fiscal Reconstruction in India, (17) Language in Education, (18) Atomic Physics, (19) Federal Finance in India, (20) The Buddhistic Philosophy of the Theravada Schools as embodied in the Pali Abhidhamma, (21) The Moghul Administrations (Second Series), (22) India and the International Labour Organization, (23) Hindu Law in its Sources, (24) Indian Banking with Special Reference to Bihar and Orissa, (25) High Temperature Flames and their Thermo-dynamics, (26) Bihar and Orissa during the Fall of the Moghul Empire, (27) New Conceptions in Biochemistry, (28) The Medical and Economic Aspects of Some Indian Medicinal Plants, (29) Some Aspects of the Census Operations of 1931 in Bihar and Orissa, (30) Contribution of Hindi Literature to Indian History, (31) The Origin and Growth of the Hindi Language and its Literature, (32) Introduction to the Biochemistry of Nitrogen Conservation, (33) Some Aspects of Roman Law, (34) Tuhfa-i-Sami, (35) Lectures on Shakespeare, (36) The Early Persian Poets of India, (37) The Psychological Attitude of Early Buddhist Philosophy, (38) Federal Finance.

### Residence and Cost of Living

The University, as at present constituted, does not control the residence of students directly. Students who do not reside with their parents or other legal guardians are required to reside in collegiate hostels or in lodgings approved by the College. The University, however, supervises the residence of students through a Student Residence Committee appointed annually by the Senate. The functions of this Committee are advisory.

### Budget: Provident Fund

The receipts for the year 1940 were Rs. 4,72,914-14-0 while the expenditure was Rs. 4,14,467-15-9.

There is a Provident Fund since 1918 to which only the whole-time servants of the University can contribute. The rate of subscription is  $9\frac{3}{8}$  per cent. per mensem on the salary of the depositor and an equal amount is contributed by the University and placed to the credit of the depositor.

### Women's Education

Female candidates are admitted to the I.A. and B.A. examinations without studying in an affiliated college.

### Provision for Safeguarding Health, Medical Inspection, Discipline, etc.

The University, as at present constituted, does not control the residence, health, or discipline of the students directly. The power of control in these matters is vested in the Principals of Colleges through the Governing Bodies of the Colleges.

### Courses of Study, Examinations and Degrees

Admission to the courses of study in the University is open to those who have passed the Matriculation examination of the University or any other examination recognized as equivalent thereto.

The University offers the Degrees of B.A. (Pass and Honours), M.A. and Ph.D. in Arts; B.Sc. (Pass and Honours), M.Sc. and D.Sc. in Science; the Professional degrees conferred are:—B.L., M.L. and Doctor of Law; Master of Education in Teaching; B.C.E. in Civil Engineering; and M.B.B.S., Master of Surgery and Doctor of Medicine in Medicine.

Diplomas are also awarded in Teaching and Music.

### COURSES OF STUDY

#### ARTS

*Intermediate Examination.*—The course of study extends over two years subsequent to the admission to the University, and a candidate is required to study and be examined in the following subjects:—

- (1) English (3 papers).
- (2) Composition in Vernacular Language (one paper).
- (3), (4) and (5) *Three* of the following subjects of which two at least must be taken from Group A:—

*Group A.*—(1) A selected Language, (2) History, (3) Logic or Psychology, (4) Mathematics, (5) Elementary Economics and Public Administration, (6) Domestic Science, (7) Geography, and (8) Education.

*Group B.*—(1) Physics, (2) Chemistry, (3) Elementary Physics and Chemistry, (4) Physiology, (5) Botany, (6) Zoology, (7) Geology, Mineralogy, and (8) Biology.

The minimum for a pass is 36 per cent. in English and in the Vernacular, and 30 per cent. in the remaining subjects

and 34 per cent. in the aggregate. A candidate who obtains not less than 60 per cent. is placed in the First Division, and in the Second Division if he obtains not less than 50 per cent.

*Bachelor of Arts (B.A.) (Pass and Honours).*—The course extends over two years subsequent to the Intermediate examination. A candidate for the Degree is required to study and be examined in (1) English (3 papers), (2) Composition in a Vernacular (1 paper), (3) and (4) Two subjects (3 papers each) to be selected from the following, one at least being taken from Group A:—

*Group A.*—(1) A Language, (2) History, (3) Economics, (4) Political Science, (5) Philosophy or Experimental Psychology, (6) Mathematics, (7) Geography and (8) Sociology.

*Group B.*—(1) Physiology, (2) Botany, (3) Zoology, (4) Physics, and (5) Chemistry.

A candidate for Honours is required to offer three more papers in one of the subjects other than Vernacular Composition.

The minimum for a pass is  $33\frac{1}{3}$  per cent. in each subject and 36 per cent. in the aggregate. 50 per cent. in the aggregate entitles to a distinction in the Pass Course.

To qualify for Honours in the subject selected a candidate must obtain 45 per cent. in that subject. 60 per cent. in the subject entitles a candidate to secure a First Class.

*Master of Arts (M.A.).*—A candidate for this Degree should have studied for two years subsequent to graduation under a University Professor or in a college recognized for the purpose. One of the following subjects may be selected for study and examination:—

(1) English, (2) A Classical Language, (3) Vernacular, (4) Comparative Philology, (5) Mental and Moral Philosophy, (6) (a) History, (b) Ethnology, (c) Archæology, (7) Economics and Political Science, (8) Mathematics, and (9) Experimental Psychology.

There are eight papers of four hours each at the examination and the minimum for a pass is 36 per cent. in the aggregate. But marks less than 25 per cent. in any paper are not included in the aggregate. Candidates obtaining 60 per cent. of the total are placed in the First Class, and in the Second Class if they obtain 50 per cent.

*Doctor of Philosophy (Ph.D.).*—A Master of Arts who has obtained a first or a second class may apply for the Degree after three years from the time of his taking Master's Degree. He is required to submit a thesis embodying the result of his

research and is further required to submit himself to a written examination at which two papers of three hours each are set, one upon the subject of his thesis and the other upon the subject of the candidate's study; and also to an oral or practical test with reference to his thesis.

## SCIENCE

*Intermediate Examination.*—The course extends over two years subsequent to the Matriculation examination. A candidate is required to study and be examined in the following subjects:—

(1) English (3 papers), (2) Composition in a Vernacular (1 paper), (3) Chemistry (2 papers and a practical examination), (4) Mathematics or Physics (2 papers in each and a practical examination in Physics), (5) *one* of the following two papers in each and a practical examination except in Mathematics: (i) Botany, (ii) Geology and Mineralogy, (iii) Zoology, (iv) Physiology, (v) General Biology, (vi) Mathematics and (vii) Physics (if not already selected). The minimum for a pass and classification of successful candidates are the same as in Arts, except that each successful candidate must pass in the practical examination, the percentage for a pass being 40.

*Bachelor of Science (B.Sc.) (Pass and Honours).*—The course extends over two years subsequent to the Intermediate examination. A candidate is required to study and be examined in three of the following subjects:—

(1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Geology and Mineralogy, (6) Zoology, and (7) Physiology.

There are two papers and a practical examination in each of these subjects except Mathematics in which there will be only three papers.

Honours may be obtained by taking in addition to the Pass papers in two of the subjects, four theoretical papers, and two practical examinations in one of the Science subjects or six papers in Mathematics. The minimum for a Pass and Honours is the same as for the B.A. Pass and Honours respectively, except that each successful candidate must pass in the practical examination, the percentage for a pass being 40.

*Master of Science (M.Sc.).*—This Degree may be taken after two years of study subsequent to graduation in Science. A candidate is required to offer one of the following subjects:—

(1) Mathematics, (2) Chemistry, (3) Physics, (4) Botany, (5) Physiology, (6) Geology and Mineralogy, and (7) Zoology.

Eight papers of four hours each are set in Mathematics, and four papers of four hours each, in each of the other subjects with a practical examination.

The minimum for a pass is the same as for the M.A. examination.

*Doctor of Science (D.Sc.).*—The rules and regulations are the same as for the Doctorate in Philosophy.

*I. Commerce.*—The course of study extends over two years subsequent to the admission to the University, and a candidate is required to study and be examined in the following subjects:—

*Compulsory:* (1) Elementary Economics, (2) Commercial Geography, (3) Economic History, (4) Elementary Book Keeping, (5) Modern English including an oral examination, and (6) Composition in a Vernacular.

*Optional:* Any two of the following: (1) Mathematics, (2) Science, (3) General History, and (4) A Foreign Language (2 papers each).

To pass the I.COM. examination in Commerce a candidate must pass the oral examination in English and obtain 30 marks in each written paper and in the aggregate 340 marks. Any student who has passed the Certificate examination in Commerce may be admitted to the I.COM. examination in two optional subjects and in vernacular composition. If the candidate passes he shall not be placed in any division.

*Certificate in Commerce.*—The course of study extends over two years subsequent to passing the Matriculation examination. The subjects for the examination are: (1) Elementary Economics, (2) Commercial Geography, (3) Economic History, (4) Elementary Book-keeping, (5) Modern English and an oral examination, (6) Office Routine, (7) Shorthand and Type-writing, (8) Commercial Correspondence, (9) Business Method, and (10) Commercial Arithmetic.

In order to pass the examination, a candidate must pass the oral examination in Modern English and obtain 30 marks in each written paper and 340 marks in the aggregate.

## PROFESSIONAL COURSES OF STUDY AND EXAMINATIONS

### LAW

*Bachelor of Law (B.L.).*—The course of study is open to graduates and extends over two years.

The subjects for study are as follows:—

*Law Examination, Part I.—Compulsory:* (1) The Law of Crimes and the general principles of Criminal Procedure and of

the Law of Evidence relating thereto, (2) Hindu Law, including all legislative enactments relating thereto, and (3) The Law of Contracts and the Law of Torts.

*Optional:* (4) and (5) Any *two* of the following subjects: (a) The Constitutional Law of England and of India, (b) International Law and Jurisprudence, (c) Ancient Laws, including the elements of Roman Law and old Indian Polity, (d) Commercial Law, comprising the Indian Income Tax Act, the Indian Insurance Act, the Indian Companies Act, and the Negotiable Instruments Act.

*Law Examination, Part II.—Compulsory:* (1) The Law relating to Property including the Law of Land Tenures, Land Revenue and Prescription, (2) The Law of Pleadings and the general principles of Civil Procedure, and the Law of Evidence, (3) The Law of Transfer *inter vivos*, the Principles of Intestate and Testamentary Succession (exclusive of the Hindu and the Muhammadan Laws of Intestate Succession), and the general principles of the Law of Limitation, (4) (a) Muhammadan Law with all legislative enactments relating thereto, (b) Other Acts specified.

*Optional:* Any *one* of the following subjects: (a) The Principles of Equity, including the Law of Trusts and the Law relating to Specific Relief, (b) Pleadings, Conveyancing, and Drafting including legislative drafting.

To pass the Law Examination, Part I, a candidate must obtain 33 per cent. in each paper and 50 per cent. of the aggregate. Candidates obtaining  $66\frac{2}{3}$  per cent. are placed in the First Class.

In order to pass the Law Examination, Part II, a candidate must obtain 33 per cent. in each paper and 50 per cent. of the aggregate. To obtain a First Class the candidate must obtain  $66\frac{2}{3}$  per cent. of the marks of the Law examinations, Parts I and II put together.

*Master of Law (M.L.).*—Candidates for this must be graduates who have held the Degree of Bachelor of Law. The subjects for study are: (1) Hindu Law or Muhammadan Law, (2) Jurisprudence and Principles of Legislation, (3) Principles and History of Roman Law, (4) Private International Law, (5) and (6) any *two* of the following subjects, namely: (i) Principles of Equity, (ii) The Law relating to the Transfer of Immovable Property and the Law of Prescription, (iii) The Law relating to Wills, (iv) The Law of Contracts and Torts, (v) Principles, and History of the Law of Real and Personal Property, (vi) Principles and History of the Law of Evidence, (vii) History of English Law. Six papers, each of three hours' duration,

shall be set to each candidate, one on each of the six subjects. There is also a *viva voce* examination.

In order to pass, a candidate must obtain 50 per cent. in each paper and those who obtain  $66\frac{2}{3}$  of the aggregate are ranked in the First Class.

*Degree of Doctor of Law.*—One year after passing the examination of M.L., a candidate may present a thesis containing his research. If the thesis is approved, the candidate is required to submit to a written examination, consisting of two papers, one upon the special subject mentioned by the candidate and the other on the subject of the thesis. There is also an oral examination. Upon the recommendation of the Syndicate the Degree is conferred.

### EDUCATION

*Diploma in Education Examination.*—The course of study extends over one year after passing the Bachelor's Degree examination in Arts or Science, besides a course of practical training in a school. The subjects and the scheme of examination are as follows: (1) History of Educational Practice, (2) Principles of Education, (3) Methods of Teaching, (4) Hygiene of the School Child, and (5) Practical Teaching.

In each Theoretical subject, there is one paper.

In order to pass, a candidate must obtain 36 per cent. of the marks in each of the above subjects and 40 per cent. in the practical examination. Candidates obtaining 60 per cent. of the marks shall be declared to have attained distinction.

*Master of Education Examination.*—The examination is open to candidates one year after passing the Diploma in Education examination.

Any candidate who has passed the Bachelor of Education examination under the regulations which were in force during the years from 1928 to 1934 may be admitted to the Master of Education examination as a non-collegiate student on the recommendation of the Principal of the Patna Training College.

- (i) Philosophy of Education.
- (ii) Educational Psychology.
- (iii) Methods of Teaching a Special Subject.
- (iv) History of Education.
- (v) Intensive study of a special educational problem.
- (vi) Educational Measurements.
- (vii) Practical work.

In the theoretical portion of the examination there shall be six papers each of four hours' duration carrying 100 marks.



namely, one paper in each of the subjects (i) to (vi) mentioned above.

In order to pass the Master of Education examination a candidate must obtain 216 marks in the aggregate of the six theoretical papers and 80 marks in the practical examination. If in any theoretical paper a candidate obtains less than 25 marks those marks shall not be included in his aggregate. Candidates who obtain 400 marks shall be placed in the Second Class and candidates who obtain 480 marks shall be placed in the First Class.

### CIVIL ENGINEERING

*Intermediate Examination in Civil Engineering.*—The examination is open to registered undergraduates of the University, two years after passing the Intermediate examination in Science or other equivalent examination. The course of study extends over two years. In order to qualify for his examination the candidate must obtain 60 per cent. of marks awarded for Field Work (Surveying) and other practical work in workshops during two sessions preceding the examination.

The subjects for study and examination are as follows:—

*Group I*—Mathematics (2 papers of 3 hours each).

*Group II*—Building Materials and Construction (one paper of 3 hours); Surveying (one paper of 3 hours).

*Group III*—Elementary Mechanical Engineering (one paper of 3 hours); Elementary Electrical Engineering (one paper of 3 hours).

*Group IV*—Graphic Statics and Applied Mechanics (one paper of 4 hours); Estimating (one paper of 4 hours).

*Group V*—Laboratory Records (Sessional work); Mechanical Drawing (Sessional work).

*Group VI*—Field Surveys (Sessional work); Building Drawing (Sessional work).

Each paper carries 100 marks. Minimum for a pass is 33 per cent. in each group, and 40 per cent. in the aggregate; 60 per cent. to get First Division and 50 per cent. to get Second Division.

*Bachelor of Civil Engineering Examination.*—The examination may be taken two years after passing the Intermediate examination in Civil Engineering and after a further regular course of study extending over two years.

In order to qualify for this examination a candidate must obtain 60 per cent. of marks awarded for Field Work (Surveying) for his particular Engineering project and for other practical work in workshops, etc. The subjects for study and examination are as follows:—

*Group I*—Strength and Elasticity of Materials (3 hours); Theory of Structures (3 hours).

*Group II*—Water Supply and Sanitary Engineering (3 hours); Irrigation and Hydraulics (3 hours).

*Group III*—Roads, Railways and Bridges (3 hours); Estimating (4 hours).

*Group IV*—Business Method (3 hours); Economics of Engineering (3 hours).

*Group V*—Structural Design (Sessional work); Laboratory Records (Sessional work).

*Group VI*—Field Surveys (Sessional work); Civil Engineering Project (Sessional work).

There is one paper in each of the subjects under each group and carries 100 marks.

The minimum marks for a pass are 40 per cent. in each group and 50 per cent. in the aggregate; 840 marks in the aggregate entitle a candidate to First Class and, 720 marks to Second Class.

Before a successful candidate is admitted to the degree of Bachelor of Civil Engineering he has to produce evidence of a further practical training for one year to the satisfaction of the University.

## MEDICINE

*Pre-Medical Examination.*—A candidate is required to study and be examined in the following subjects: (1) Botany, (2) Zoology. In order to pass a candidate must secure 40 per cent. of the maximum marks in each part of each subject.

*The Intermediate M.B.B.S. Examination.*—The examination may be taken at least two years after (i) passing the Pre-Medical (or the old 1st M.B.B.S.) examination, (ii) the I.Sc. examination of the Patna University with Physics, Chemistry and Biology or some other examination recognised by the Syndicate as equivalent thereto provided that he has passed the theoretical and practical portions of the examination in the Botany and Zoology parts of Biology separately, (iii) the B.Sc. examination of a recognised university with Botany and Zoology in addition to having passed

in Physics and Chemistry either at the Intermediate or Degree examination.

A candidate is required to study and be examined in the following subjects:—

(1) Human Anatomy (including Embryology), Descriptive and Practical, (2) Human Physiology: (a) Descriptive and Practical, (b) Elements of Embryology, (3) Human Physiology, including (a) Principles of General Physiology, (b) Experimental Physiology, (c) History, (d) Bio-Chemistry and Bio-Physics, and (e) Organic Chemistry.

In order to pass a candidate must secure at least 50 per cent. of the maximum marks in each part of each subject.

*Final M.B.B.S. Examination, Part I.*—The examination may be taken at least two years after passing either both parts of the old Second M.B.B.S. examination or the Intermediate M.B.B.S. examination. A candidate is required to study and be examined in the following subjects: (1) Pathology and Bacteriology, (2) Forensic Medicine including Toxicology, (3) Hygiene and Public Health, (4) Pharmacology and Materia Medica. In order to pass, a candidate must secure at least 50 per cent. of the maximum marks in each part of each subject. A candidate who passes in all subjects at one time and secures 75 per cent. of the maximum marks in any subject shall be declared to have passed with Honours in that subject.

*Final M.B.B.S. Examination, Part II.*—The examination may be taken at least three years, after passing both parts of the old second M.B.B.S. examination or the Intermediate M.B.B.S. examination. A candidate is required to study and be examined in the following subjects: (1) Medicine (2 papers), (2) Surgery, (3) Obstetric Gynæcology and Infant Hygiene, (4) Ophthalmology and Diseases of Ear, Nose and Throat. In order to pass a candidate must secure 50 per cent. of the maximum marks in each part of each subject of the examination. A candidate who passes in all subjects at one time and secures 75 per cent. of the maximum marks in any subject shall be declared to have passed with Honours in that subject.

*Master of Surgery (M.S.).*—Any registered candidate who has passed the M.B.B.S. examination not less than three academical years previously may be examined for the Degree of M.S. in the following branches:—

I. General Surgery including Gynæcology.

II. Ophthalmology.

III. Laryngology, Rhinology and Otology.

Provided that candidates who have obtained Honours in Surgery at the M.B.B.S. examination may be permitted to sit for the M.S. examination after two years have elapsed since they passed the Final M.B.B.S. examination.

Provided also that a similar concession shall be made in the case of a candidate who produces evidence that he has devoted, subsequent to his graduation, at least one year in practical study or hospital work in the special subject in which he wishes to present a thesis.

The subjects in which a thesis may be presented are:—

- (i) Surgery,
- (ii) Ophthalmology,
- (iii) Gynæcology, and
- (iv) Anatomy including Operative Anatomy.

The examination for the Degree of M.S. shall consist of:—

*Branch I.*—(a) Two papers in Surgery (including Gynæcology) one of which may be a case for commentary or an essay on one or two subjects selected from General Surgery and Gynæcology. (b) One paper in Surgical Pathology. (c) One paper in Surgical Anatomy. (d) A clinical examination. (e) Operations on the dead body. (f) An oral examination.

*Branch II.*—(a) One paper in General Surgery. (b) One paper in Ophthalmology. (c) One paper in the Anatomy and Physiology of the Eye including Physiological Optics. (d) One paper in the Pathology of the Eye. (e) A clinical examination. (f) Operations on the dead body. (g) An oral examination.

*Branch III.*—(a) One paper in General Surgery. (b) One paper in Laryngology, Otology and Rhinology. (c) One paper in the Anatomy and Physiology of the Ear, Nose and Throat. (d) One paper in the Pathology of the Ear, Nose and Throat. (e) A clinical examination. (f) Operations on the dead body. (g) An oral examination.

*Doctor of Medicine (M.D.).*—Any registered candidate who has passed the M.B.B.S. examination not less than three academical years previously may be examined for the Degree of M.D. in the following branches:—

*Branch I.*—General Medicine including Mental Diseases.

*Branch II.*—Obstetric Medicine and Diseases of Women and Children.

*Branch III.*—Pathology.

*Branch IV.*—Tropical Medicine.

Provided that candidates who have obtained Honours in Medicine at the M.B.B.S. examination may be permitted to sit

for the M.D. examination after two years have elapsed since they passed the Final M.B.B.S. examination.

Provided also that a similar concession shall be made in the case of a candidate who produces evidence that he has devoted, subsequent to his graduation, at least one year in practical study or hospital work in the special subject in which he wishes to present a thesis.

The subjects in which a thesis may be presented are:—

- (i) Physiology.
- (ii) Pathology.
- (iii) Bacteriology.
- (iv) Therapeutics.
- (v) Medicine.
- (vi) Forensic Medicine.
- (vii) Mental Diseases.
- (viii) Toxicology.
- (ix) State Medicine.
- (x) Obstetrics.

The examination for the Degree of M.D. shall consist of:—

*Branch I.*—(a) Medicine (one paper). (b) Medicine including Mental Diseases and Pathology (two papers). (c) A clinical and oral examination including an examination in Pathological Specimens.

*Branch II.*—(a) Medicine (one paper). (b) Obstetric Medicine and Diseases of Women and Children including the Pathology of these subjects (two papers). (c) A clinical and oral examination in Obstetric Medicine and the Diseases of Women and Children including an examination in Pathological Specimens.

*Branch III.*—(a) Medicine (one paper). (b) Pathology (two papers). (c) A clinical and oral examination in Pathology.

*Branch IV.*—(a) Medicine (one paper). (b) Tropical Medicine including the Pathology of Tropical Diseases (two papers). (c) A clinical and oral examination including an examination in Pathological Specimens.

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# **University of Rangoon**

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## **Introductory: Character of the University**

The University of Rangoon was incorporated in December 1920, by the University of Rangoon Act 1920 (modified by an amendment Act of 1924) as a Teaching and Residential University, when Government College, Rangoon, and Judson College, Rangoon, which had been affiliated to the University of Calcutta, were incorporated as Constituent Colleges of the University.

The University Act has since been amended by the University of Rangoon Act (Amendment Act), 1939, which came into force with effect from 15th June 1939.

The University now comprises five Constituent Colleges, namely:—

- (1) University College.
- (2) Judson College.
- (3) Teachers' Training College (situated with the main University Buildings, Convocation Hall, University Library, University Gymnasium, Sanatorium, Students' Union, etc., on the University Estate), and
- (4) Medical College which stands near the Rangoon General Hospital and a large Maternity Hospital in the city.
- (5) Agricultural College, Mandalay.

It was intended that the University should be unitary in character; the two colleges first named above were left free by the Act to amalgamate within five years of the passing of the Act. As this amalgamation has not been brought about, the University falls short of the unitary ideal but preserves a residential unitary character.

An Intermediate College has been opened at Mandalay by Government and is managed by the University. Special temporary Regulations have been made to enable students from Mandalay to appear for the Intermediate Examinations of the University.

The University appoints certain members of the teaching staff of the Constituent Colleges to the office of Professor of the University. These officers are paid honoraria by the University at the rate of Rs. 300 per mensem which has now been

reduced to Rs. 200 per mensem for future appointments. Their duties as Professors are prescribed in the Regulations of the University. They are in charge of the teaching and organization of the departments with which they are concerned. Other teachers in the Constituent Colleges are designated lecturers, assistant lecturers, tutors and demonstrators.

The University authorities are:—

The Chancellor,  
The Vice-Chancellor,  
The Council,  
The Senate,  
The Executive Committee of the Council,  
The Standing Committee of the Senate.

The Council consists of about 70 members and exercises its functions by means of an Executive Committee of 16 members. The Council is the supreme authority of the University and has power to reject any Act or Resolution of the Senate (the academic authority) in excess of the powers of the latter authority.

The Senate consists of:—

The Chancellor,  
The Director of Public Instruction, Burma,  
The Principals of Constituent Colleges,  
The Professors,  
Ten members of the Council,  
and not less than 10 Lecturers in Constituent Colleges,  
One member elected by the Public Service Commission,  
One member elected by the Patamahyan Examination Committee.

Its executive duties are discharged by the Standing Committee of the Senate.

### Officers and Staff of the University

#### CHANCELLOR

U. Tin Tüt, M.A., Bar-at-Law, I.C.S.

#### PRO-CHANCELLOR

Mr. Sydney Loo-Nee, M.H.R., Bar-at-Law.

#### VICE-CHANCELLOR

Dr. Maung Set, C.I.E., B.A., LL.D.

#### REGISTRAR

L. Htin Si, M.A. (Cal.).

## PROFESSORS

English	..	F. W. W. Rhodes, M.A.
Oriental Studies	..	Khan Sahib A. Cassim, B.A.
History	..	B. R. Pearn, M.A., F.R.Hist.S., M.R.A.S. (on <i>Military duty</i> ). W. S. Desai, M.A. ( <i>Offg.</i> ).
Economics	..	H. Bernardelli, D.Phil. ( <i>Offg.</i> ).
Philosophy	...	G. S. Jury, M.A., Ph.D.
Mathematics	..	U. Aung Hla, M.A. (Cantab.), Bar-at-Law.
Physics	..	Dr. J. West, B.Sc., D.Sc., F.Inst.P.
Chemistry	..	J. Farquharson, D.Sc., Ph.D., A.I.C., F.C.S. ( <i>Offg.</i> ).
Biology	..	Miss E. E. Whitmer, M.A. ( <i>Offg.</i> ).
Geology and Geography		C. G. Beasley, M.A., F.G.S., F.R.G.S.
Medicine	..	Lt.-Col. R. V. Morrison, M.D., F.R.C.P. (Edin.), I.M.S.
Surgery	..	Lt.-Col. D. P. MacDonald, M.B., Ch.B., F.R.C.S., I.M.S.
Pathology	..	Lt.-Col. R. H. Malone, M.D., I.M.S.
Anatomy	..	Major G. M. Irvine, M.D., L.M., F.R.C.S.E., I.M.S.
Physiology	..	<i>Vacant.</i>
Midwifery and Gynæcology		Lt.-Col. R. McRobert, M.B., Ch.B., I.M.S.
Forensic Medicine		<i>Vacant.</i>
Education	..	Miss M. E. Scott, M.B.E., M.A., B.Ed., B.E.S. (I) ( <i>on leave</i> ). U Ba, B.A., B.Ed. ( <i>Offg.</i> ).
Civil Engineering	..	F. Webster, M.C., M.Eng., A.M.I.C.E. ( <i>on leave</i> ).
Forestry	..	<i>Vacant.</i>
Law	..	Dr. Ba Han, M.A., Ph.D., D.Litt., Bar-at-Law.
Agriculture	..	A. McLean, B.Sc. (Agric.), I.A.S.
Agricultural Chemistry		<i>Vacant.</i>
Agricultural Botany		D. Rhind, B.Sc., I.A.S.



### Constituent Colleges and their Staff

- (1) University College (Rangoon).
- (2) Judson College (Rangoon).
- (3) Medical College (Rangoon).
- (4) Training College for Teachers (Rangoon).
- (5) Agricultural College (Mandalay).

#### UNIVERSITY COLLEGE

Principal	.. Pe Maung Tin, M.A. (Cal.), B.Litt. (Oxon.), B.E.S. (I).
Biology	.. <i>Lecturer</i> : F. J. Meggitt, M.Sc., Ph.D. (Birm.), F.Z.S., B.E.S. (I) ( <i>on Military duty</i> ). <i>Asst. Lecturers</i> : L. P. Khanna, M.Sc., F.L.S.; M. C. Billimoria, M.Sc., Ph.D.; R. C. Chatterjee, M.Sc.; U. W. Shim, B.Sc.; and 4 Demonstrators and 1 Curator.
Chemistry	.. <i>Professor</i> : J. Farquharson, D.Sc., Ph.D., A.I.C., F.C.S. <i>Asst. Lecturers</i> : R. Venkateswaran, M.A. (Madras), Ph.D.; B. K. Menon, M.Sc.; U Po Tha, M.Sc. (Ran.); U Aung Khim, B.Sc., D.I.C., A.I.C.; and 8 Demonstrators and Assistant Demonstrators.
Economics	.. <i>Professor</i> : H. Bernardelli, D.Phil. <i>Asst. Lecturers</i> : R. C. Dube, M.A. (All.); J. S. Raj, B.A. (Madras), M.Sc. (Econ.) (Lond.); B. M. Piplani, M.A., B.Com., Ph.D.; and 2 Tutors.
Civil Engineering	.. <i>Professor</i> : F. Webster, M.C., M.Eng., A.M.I.C.E. ( <i>on leave</i> ). <i>Lecturers</i> : A. Burton, B.Sc. (Eng.), A.M.I.Mech.E.; D. Pendril-Davies, A.M.I.E.E. <i>Asst. Lecturers</i> : R. C. Jaidka, B.Sc.; T. R. Rao, B.Sc. (Eng.); Mg. San Shin, B.Sc. (Eng.); 2 Tutors; and E. M. Eduljee, B.O.T., Workshop Superintendent.
English	.. <i>Professor</i> : F. W. W. Rhodes, M.A. <i>Lecturers</i> : M. J. P. Cruttwell, B.A.; Htin Aung, B.A., Ph.D., B.Litt., Bar-at-Law.

- Asst. Lecturers:* P. G. Gopalakrishna Aiyar, M.A., L.T. (Madras); S. Jembunathan, M.A.; U. Myo Min, B.A., B.L.; Mrs. G. Khin Zaw, B.A.; C. V. Johannes, M.A.; N. R. H. Iyer, M.A.; and 12 Tutors.
- Geography and Geology** .. *Professor:* C. G. Beasley, M.A., F.G.S., F.R.G.S.  
*Lecturers:* O. H. K. Spate, M.A., Ph.D. (*on Military duty*); J. S. Turner, M.Sc., F.G.S. (*on Military duty*).  
 3 Demonstrators; and 1 Cartographer.  
*Asst. Lecturer:* R. Ramanathan, M.A.
- History** .. *Professor:* B. R. Pearn, M.A., F.R.Hist.S., M.R.A.S. (*on Military duty*).  
*Lecturer in Far Eastern History:* G. H. Luce, M.A., B.E.S. (I) (*on leave*); W. S. Desai, M.A. (Cantab.).  
*Asst. Lecturers:* K. S. Subramanian; M. Sadiq Khan, M.A., B.L.; and 4 Tutors.
- Law** .. *Professor:* Ba Han, M.A., Ph.D., D.Litt., Bar-at-Law.  
*Lecturers:* U. Myint, B.A., Bar-at-Law; U Chan Tun Aung, B.A., B.L., Bar-at-Law.
- Mathematics** .. *Professor:* U Aung Hla, M.A. (Cantab.), Bar-at-Law.  
*Lecturer:* E. G. Lewis, B.Sc., F.S.S.●  
*Asst. Lecturers:* K. P. Halder, M.A., M.Sc. (Cal.); Uka, M.A., A.T.M.; F. E. Machado, M.Sc.; O. K. Mitter; and 5 Tutors.
- Oriental Studies** .. *Professor:* Khan Sahib A. Cassim.
- Pali** .. *Lecturer:* U Hla Aung, B.A. (Ran.); and 3 Tutors.
- Burmese** .. *Asst. Lecturers:* U E Maung, M.A. (Ran.); U. Wun, M.A., B.Litt.; and 9 Tutors.
- Logic** .. *Asst. Lecturer:* N. C. Das Purkayastha, M.A., B.L.; and 1 Tutor.
- Physics** .. *Professor:* J. West, D.Sc., F.Inst.P.  
*Lecturer:* W. C. Quayle, M.A., B.Sc. (Liv.).

*Asst. Lecturers:* N. G. Srinivasan, M.Sc.;  
W. M. Vaidya, B.Sc., Ph.D. (Lond.);  
and 8 Demonstrators and Assistant  
Demonstrators.

### JUDSON COLLEGE

Principal	..	Hla Bu, M.A. (Cal.), Ph.D. (Lond.).
Biology	..	G. E. Gates, M.A., Ph.D. (Harvard) ( <i>on leave</i> ); F. G. Dickason, M.A. (Ohio); Miss E. E. Whitwer, M.A. (Nebraska); Mrs. H. B. Whittington, M.Sc.
Burmese and Pali Literature		U Tun Pe, M.A. (Cal.), B.L. (Rang.), M.R.A.S., M.H.R., M.B.E. (Burmese and Pali); R. P. Chaudhuri, M.A. (Cal.); P. R. Schol (Pali); U Tin Maung, B.A.; and 3 Instructors.
Chemistry and Physics		Miss Marian Shivers, M.A. (Columbia); Dwight Olney Smith, M.A. (Calif.), B.Sc. (Calif. Tec.); S. C. Guha, M.A. (Cal.); N. C. Majumdar, M.Sc. (Cal.); J. G. Beckerley, B.A.; and 4 Demonstrators.
English Literature		S. H. Rickard, B.A. (Bucknell), Dean of Men; Miss H. K. Hunt, M.A., Dean of Women; Johnson Kan Gyi, M.A. (Chicago); Miss E. San Tay, B.A.; Mrs. Hilda Gnanadorai, M.A. (Can- tab.); and 4 Instructors.
History	..	Rev. L. B. Allen, M.A. (Columbia); Miss B. J. Stewart, B.A. (Ran.), Ph.D. (Lond.); and 2 Instructors.
Mathematics	..	M. N. Ghatak, M.A. (Cal.); A. N. Johnson, M.Sc. (Ran.), M.Sc. (Chica- go); and 1 Instructor.
Mental and Moral Science and Logic		G. S. Jury, M.A., Ph.D. (Yale); U Hla Bu, M.A. (Cal.), Ph.D. (Lond.); O. N. Hillman, M.Sc., M.A., Ph.D. (Brown); K. N. Kar, M.A. (Ran.).
Economics	..	E. K. Warriar, M.A., M.Sc. (Lond.); F. J. B. David, M.A. (Madras); and 1 Instructor.
Geography	..	H. B. Whittington, B.Sc., Ph.D.

## MEDICAL COLLEGE

Principal	..	Major G. M. Irvine, M.D., L.M., F.R.C.S.Ed., I.M.S.
Asst. to the Principal		Dr. S. C. Guha, M.B., F.R.F.P. & S.
Anæsthetics	..	Dr. B. Bhattacharya, M.B.B.S.
Anatomy	..	<i>Professor:</i> Major G. M. Irvine, M.D., L.M., F.R.C.S.Ed., I.M.S. <i>Asst. Lecturer:</i> Dr. S. C. Guha, M.B., F.R.F.P. & S. <i>Demonstrators:</i> Dr. H. N. Das, M.B.B.S. (Ran.); Dr. (Miss) May Aubrey, M.B.B.S.
Contagious Diseases		<i>Lecturer:</i> Dr. N. S. Kotwall, M.B.B.S., D.P.H.
Dentistry	..	<i>Lecturer:</i> Mr. S. K. Dey.
Forensic Medicine		<i>Professor:</i> (Vacant). <i>Lecturer:</i> Dr. Ba Than, M.B. (Cal.), F.R.C.S.Ed. <i>Asst. to the Lecturer:</i> Dr. San Be Graf, M.B.B.S.
Hygiene and Public Health		<i>Lecturer:</i> Dr. San Hla Aung, M.B., ch.B., D.P.H.
Medicine	..	<i>Professor:</i> Lt.-Col. R. V. Morrison, M.D., F.R.C.P. (Edin.), I.M.S. <i>Asst. to the Professor:</i> Dr. Maung E, M.B.B.S., M.R.C.P., M.R.C.S. (Eng.), D.T.M. & H. (Edin.).
Mental Diseases	..	<i>Lecturer:</i> Lt.-Col. G. H. Fraser, M.B., ch.B. (Edin.), D.P.M. (Eng.), I.M.S.
Obstetrics and Gynæcology		<i>Professor:</i> Lt.-Col. R. McRobert, M.B., ch.B., I.M.S. <i>Asst. to the Professor:</i> Dr. (Mrs.) I. Huffton, M.B.B.S. (Pb.).
Ophthalmology	..	<i>Lecturer:</i> Lt.-Col. H. S. Cormack, M.C., M.B., ch.B. (Edin.), F.R.C.S.Ed., D.O. (Oxon.), I.M.S. <i>Asst. to the Lecturer:</i> Dr. Ko Gyi, M.B.B.S. (Ran.).
Pathology and Bacteriology		<i>Professor:</i> Lt.-Col. R. H. Malone, M.D., D.P.H., I.M.S. <i>Asst. Lecturers:</i> Dr. P. G. Gollerkeri, M.p.; Dr. T. Venkataswamy, M.B.B.S. <i>Demonstrator:</i> (Vacant).

Pharmacology and Meteria Medica		<i>Lecturer:</i> Dr. G. L. Chaudhuri, M.B. (Cal.), M.R.C.P. (Edin.), F.R.F.P. & S. (Glas.), D.T.M. & H. (Edin.). <i>Asst. Lecturer:</i> Dr. B. S. Kahali, M.B. <i>Demonstrator:</i> Dr. S. R. Das Gupta, M.B.B.S.
Physiology	..	<i>Lecturer:</i> Dr. H. Chaudhury, M.Sc., M.B., M.R.C.P. <i>Asst. Lecturer:</i> (Vacant). <i>Demonstrator:</i> Dr. K. Rahman, M.B.B.S. (Ran.).
Organic and Physi- cal Chemistry		<i>Asst. Lecturer:</i> Mr. H. N. Banerji, M.Sc. <i>Demonstrator:</i> Mr. Y. Sun Guran, B.Sc. (Hons.).
Radiology	..	<i>Lecturer:</i> Dr. D. C. Virmani, M.R.C.S., L.R.C.P., D.M.R.E.
Surgery	..	<i>Professor:</i> Major D. P. MacDonald, M.B., Ch.B., F.R.C.S.Ed., I.M.S. <i>Asst. to the Professor:</i> Dr. D. M. Nundy, M.B.B.S., M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.R.C.S. (Edin.).

## TRAINING COLLEGE FOR TEACHERS

Principal and Lec- turer in History		U Ba, B.A., B.Ed. (Edin.).
Education	..	<i>Lecturer:</i> Miss M. E. Scott, M.B.E., M.A., B.Ed., I.E.S.
English	..	<i>Lecturer:</i> A. I. Burrows, M.A.Ed. <i>Asst. Lecturers:</i> Mrs. I. Grant, B.A., B.T.; Miss A. Kamen, M.A.; Miss A. F. De Souza, M.A., D.T.
Geography	..	<i>Lecturer:</i> Miss F. Wemyss, B.A., B.Ed.
Science	..	<i>Lecturer:</i> A. K. Samban, M.A., D.T.
Mathematics	..	<i>Asst. Lecturers:</i> Mrs. O. W. Emin, B.A.; Daw Chit, B.A., B.Ed.
Tutors	..	Daw Than E, B.A., Dip.Ed.; Daw Amar Kyu, B.A., B.Ed.; T. R. V. Mani, B.A., B.Ed.
Teaching of Infants		<i>Lecturer:</i> Miss G. White, B.A., Dip.Ed.
Burmese	..	<i>Lecturer:</i> U Kun, B.A., B.Ed.
Domestic Science	..	<i>Lecturer:</i> Daw Manie Kaing, B.A., B.Sc. (on Military duty).

Art Master	.. U Ba Nyan, R.C.A.
Physical Education	<i>Lecturers:</i> David Tin Hla, ph.B. ( <i>on Military duty</i> ); Miss H. Barnard, F.G.D.A., M.R.S.T.
School Hygiene and First-Aid	<i>Lecturer:</i> Dr. J. V. Roberts, L.M. & S., D.P.H. (Part-Time).

## AGRICULTURAL COLLEGE

Principal	.. A. McLean, B.Sc. (Agric.) (Edin.), B.A.S.
Agriculture	.. <i>Professor:</i> A. McLean, B.Sc. (Agric.) (Edin.), B.A.S. (I). <i>Lecturer:</i> U Ba Tin, B.Ag. (Bom.), B.A.S. (II). <i>Asst. Lecturer:</i> A. N. P. Williams, Dip.Ag., B.A.A.S.
Agricultural Botany	<i>Professor:</i> D. Rhind, B.Sc. (Brist.), B.A.S. <i>Lecturer:</i> D. Chatterjee, M.Sc. Ph.D., F.L.S., F.R.H.S.; and 3 Demonstrators.
Agricultural Chemistry	<i>Professor:</i> (Vacant). <i>Lecturers:</i> S. P. Aiyar, B.A. (Mad.), Ph.D. (Lond.), A.I.C., B.A.S. (II); U Ko Lay, M.Sc., D.I.C., A.I.C. <i>Asst. Lecturer:</i> T. K. Sen, M.Sc.; 5 Demonstrators.
Plant Pathology	.. <i>Lecturer:</i> L. N. Seth, B.Sc. (Pb.), Ph.D., D.I.C. (Lond.), B.A.S. (II). <i>Asst. Lecturer:</i> Harbant Singh, B.Sc. (Pb.), Ph.D. (Edin.), B.A.A.S.; 2 Demonstrators.
Entomology and Sericulture	<i>Lecturer:</i> A. Ba Te, B.Sc. (Cal.), B.Ag. (Bom.), B.A.S. (II); 3 Demonstrators.

## INTERMEDIATE COLLEGE, MANDALAY, MANAGED BY THE UNIVERSITY

Principal	.. A. D. Marshall, M.A. (Oxon.).
Burmese and Pali	<i>Lecturer:</i> U Aung Than, B.A. (Ran.); and 2 Tutors.
Chemistry	.. <i>Lecturer:</i> B. K. Pal, M.Sc. (Ran.).
English	.. <i>Lecturer:</i> A. D. Marshall, M.A. (Oxon.); and 2 Tutors.

Mathematics	..	Lecturer: U Net, B.Sc. (Ran.).
Physics	..	Lecturer: H. S. Sokhey, B.Sc. (Cal.).
History	..	Lecturer: (Vacant).

### Number of Students in Each Faculty

#### 1. Full-time Students (1940-41)

Faculty or School	Graduate Students		Preparing for a 1st Degree		Diploma Students		Total	
	Men	Women	Men	Women	Men	Women	Men	Women
Arts and Science ..	13	1	1,764	403	..	..	1,777	404
Medicine ..	..	..	137	29	..	..	137	29
Law ..	69	2	..	..	..	..	69	2
Engineering ..	..	..	87	..	16	..	103	..
Education ..	32	36	..	..	21	73	53	109
Agriculture ..	..	..	45	..	..	..	45	..
TOTAL ..							2,184	544

#### 2. Full-time Students residing in Halls

Men ..	1,249	Women ..	467
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### Number of Successful Students in Different Examinations of 1941

	Men	Women
Intermediate ..	221	53
B.A. (Pass) ..	79	23
B.Sc. (Pass) ..	14	1
B.A. (Hons.) ..	19	11
B.Sc. (Hons.) ..	8	1
M.A. ..	2	1
M.Sc. ..	—	—
2nd Exam. for Diploma in Engineering	3	—
Final Exam. for Diploma in Engineering	12	—
1st Exam. in Engineering ..	23	—
2nd Exam. in Engineering ..	18	—
B.Sc. Engineering (Pass) ..	9	—
B.Sc. Engineering (Hons.) ..	3	—
1st Exam. in Law ..	26	2
Bachelor of Laws ..	28	—
University Trained Teachers' Certificate	17	64

	Men	Women
Bachelor of Education .. ..	28	34
1st M.B.B.S. Examination .. ..	8	1
2nd M.B.B.S. Examination .. ..	46	8
3rd M.B.B.S. Examination .. ..	25	6
Part I Final M.B.B.S. Examination	34	5
Part II Final M.B.B.S. Examination	21	1
1st Exam. in B.Sc. Agriculture ..	16	—
B.Sc. (Agri.) .. ..	15	—

### Scholarships and Medals

Collegiate Scholarships are awarded by bodies other than the University.

The Merlin Kingsley Memorial Scholarship awarded to women students who have passed the I.Sc. Examination or an equivalent examination of the University and are students of the Medical College of the University provided they are educated and domiciled in Burma. The number of scholarships to be awarded is left to the discretion of the Trustees of the Fund.

### UNIVERSITY PRIZES

1. *The Ho Wah Kain Gold Medal* awarded to the student of the University of Rangoon standing highest in Mathematics among the successful students in the Intermediate Examination.

2. *The Dally Jamshedji Chinai Silver Medal* awarded to the male candidate who stands first among the successful candidates (in any subject or group of subjects chosen by the Vice-Chancellor) in the B.A. (Honours) Examination of the University of Rangoon.

3. *The Mrs. Piroja Jamshedji Chinai Silver Medal* awarded to the female candidate who stands first among the successful candidates (in any subject or group of subjects chosen by the Vice-Chancellor) in the B.A. Examination of the University.

4. *The U Shwe Llay Prize* (Gold Medal and Books) awarded to the successful candidate standing highest in Chemistry in the Honours Examination for the Degree of B.Sc.

5. *The S. Ramanatha Reddiar Prize* (Gold Medal and Books) awarded to the successful candidate standing highest in Physics in the Honours Examination for the Degree of B.Sc.

6. *The U Po Hnit Gold Medal* awarded to the student of either of the two Colleges in Burma who stands highest for the year in English Honours in the B.A. Examination of the University.



7. *The Hajee Esoof Bhymcah Gold Medal* awarded to the student of either of the two Colleges in Burma who stands highest in the Examination for the Degree of B.Sc.

8. *The Moay Twe Main* (Mrs. Ho Wah Kain) Prize (Gold Medal and Books) awarded to the successful candidate standing highest in History in the Honours Examination for the Degree of B.A.

9. *The Meyer Prize* (Gold Medal and Books) awarded to the successful candidate standing highest in Mathematics in the Honours Examination for the Degree of B.A. or B.Sc.

10. *The U Bah Oh Gold Medal* awarded to the best all-round candidate in the Examination for the B.Sc. Degree in Forestry.

11. *The Chinese Merited Association Gold Medal* awarded to the successful candidate standing highest in Economics in the Honours Examination for the Degree of B.A.

12. *The Taw Koon Gold Medal* awarded to the Chinese candidate standing highest in the Honours Examination in Burmese for the Degree of B.A. or failing such candidate to the Chinese candidate standing highest in the Pass Examination in Burmese for the Degree of B.A. if his work has been, in the opinion of the Vice-Chancellor, of sufficient merit.

13. *The Harriet Chakko Gold Medal* awarded to the successful candidate standing highest in the Clinical Medicine in the Final M.B.B.S. Examination of the University of Rangoon.

14. *The Dr. Chakko Gold Medal* awarded to the successful candidate standing highest in Midwifery and Gynæcology in the Final M.B.B.S. Examination of the University of Rangoon.

15. *The Nargis Anklesaria Prize* consisting of either a Gold Medal or books of corresponding value, viz., Rs. 40 awarded in Surgery for the Final Part II M.B.B.S. Examination of the University of Rangoon on the following terms:—

(1) The Gold Medal to the candidate obtaining 75 per cent. or over; or

(2) In the event of there being no such candidate, books as of right to the candidate obtaining 65 per cent. or over and if less than 65 per cent. but more than 60 per cent. at the discretion of the Board of Examiners in Medicine.

16. *The Raja Dr. S. Ramanatha Reddiar Prize* (Gold Medal and Books) awarded to the student with the most distinguished academic career in Medicine in the University of Rangoon.

17. *The Taw Chin Lye Memorial Prize in Medicine* consisting of either a Gold Medal or books of corresponding value.

*vis.*, Rs. 30 awarded to the person standing highest among the Chinese or Sino-Burman candidates in the Final Part II M.B.B.S. Examination of the University of Rangoon on the following conditions:—

- (1) A Gold Medal if a distinction in any one subject is gained; or
- (2) If less than a distinction mark is gained, books of corresponding value at the discretion of the Board of Examiners in Medicine.

18. *The Prince of Wales' Prize* awarded to the author of an original work in Burmese (Prose or Poetry) or of a translation or adaptation into Burmese of a work completed during the year previous and considered by the Senate of the University to show exceptional merit.

19. The University accepted the generous gift by C. W. Dunn, Esq., of shares to the value of Rs. 500 in the Burma Book Club to supplement the moneys available for prizes for students.

### Library, Museums and Laboratories

The University Library contains 27,191 volumes.

The University College Library contains 40,447 volumes.

The Judson College Library contains 23,953 volumes.

Training College for Teachers' Library contains 12,887 volumes.

Agricultural College Library contains 10,789 volumes.

Medical College Library contains 2,016 volumes.

The Intermediate College Library contains 3,072 volumes.

Museums in connection with various departments in constituent Colleges are in course of formation:—

Chemical, Physical, Biological, Engineering, Geological, Psychological, Anatomical and Physiological.

### Provision for Research

Research Scholarship—Burmese and Plant Chemistry.

Budget provides Rs. 8,350 for research projects which have been sanctioned by the University Authorities as follows:—

(a)	Board of Studies in English	..	Rs.	900
(b)	" " History	..	"	1,250
(c)	" " Law	..	"	2,400
(d)	" " Medicine	..	"	780
(e)	" " Chemistry	..	"	400
(f)	" " Biological Science	..	"	2,100
(g)	" " Contingencies	..	"	520

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TOTAL .. Rs. 8,350

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### Publications

Professor R. Unwin's "Notes on Forest Protection in Burma".

Professor Pe Maung Tin and G. H. Luce, "Selection from the Inscriptions of Pagan".

Professor D. G. E. Hall: (1) "Early English Intercourse with Burma". (2) "Dalhousie-Phayre Correspondence".

Rev. R. Halliday (Editor), "Gavampati".

Professor Pe Maung Tin (Editor), "Yazawin Gyaw".

Professor L. D. Stamp: "Vegetation of Burma".

Professor Pe Maung Tin and Mr. G. H. Luce, "Inscriptions of Burma". Portfolios I-III.

Mr. J. S. Furnivall, (1) "Studies in the Economic and Social Development of the Netherlands East Indies—III c. State Pawnshops in Netherlands India." (2) "Studies in the Social and Economic Development of the Netherlands East Indies—III. State and Private Money-Lending." (3) "Studies in the Social and Economic Development of the Netherlands East Indies—II b. An Introduction to the History of Netherlands India, 1602-1836." (4) "Studies in the Social and Economic Development of the Netherlands East Indies—III d. The Land Revenue System."

Mr. W. S. Desai, "History of the British Residency in Burma, 1826-1840".

### Military Training

The Rangoon University Training Corps, B.T.F. including a Section of Sappers and Miners. Students following Engineering courses are members of the "Sapper" Section. Permanent Staff of the Battalion: One British Officer, one Acting Regimental Sergeant-Major, one Acting Regimental Quarter-Master Sergeant, four Staff Sergeant Instructors.

#### *Officers of the Rangoon University Training Corps (B.T.F.)*

Officer Commanding	..	Major L. Htin Si.
2nd in Command	..	Captain Po Chu, A.T.M.
Adjutant	..	Captain A. G. Mackenzie Kennedy, The Royal Scots Regt.

#### *"A" Company*

Company Commander	Captain Aung Than.
Company Officer	.. Lieut. Mg Htin Aung.

*"B" Company*

Company Commander      Captain D. Tin Hla.  
    2nd Lieut. Chan Tun Aung.

*"C" Company*

Company Commander      Captain J. Kangyi.  
    2nd Lieut. Myo Min.

*Sapper and Miner Section*

Section Commander      2nd Lieut. D. Pendril Davies.

*Medical Officer*

Captain Ko Gyi.

**Residence and Cost of Living**

There are 11 hostels for men and 3 hostels for women attached to the Constituent Colleges on the Estate. These will accommodate 1,350 men and 300 women respectively. In addition there are, on the Estate, two hostels, one for boys and one for girls attached to the Practising Departments of the Training College for Teachers. The accommodation is 50 each.

The messing and lodging fees in the Judson College hostels are approximately Rs. 200 per annum; in addition, a hostel fee of Rs. 10 per year is levied. European diet for women students is charged at Rs. 25 per month.

In University College hostels the messing and lodging fees are approximately Rs. 235 per annum.

**Budget: Provident Fund**

	BUDGET	Rs.	A.	P.
Government Contribution (out of which Rs. 51,300 is on account of Intermediate College, Mandalay, Rs. 13,000 is special grant for repairs to roof of Convocation Hall) ..		1,59,915	0	0
Fees .. .. .		57,212	8	0
Income from other sources .. .. .		3,37,820	0	0
Expenditure (including Rs. 51,300 on account of Intermediate College, Mandalay) ..		5,28,712	8	3

**PROVIDENT FUND**

The University and University College have instituted Provident Funds for Officers who are not members of the I.E.S.

or B.E.S. Pensions and Provident Fund benefits are provided for the latter under the Fundamental Rules of the Government of India.

### Women's Education

No restrictions.

### Students' Information Bureau

The appointment of the Registrar of the University as Honorary Secretary of the Burma Society as recommended by the Lytton Committee has established the machinery whereby the functions of a University Bureau are discharged.

### Health

All students living in hostels are required, unless exempted by medical certificate, to take daily some form of physical exercise. Qualified Medical Officers look after the health of students in hostels.

### Admission, Courses of Study, Examinations and Degrees

#### ADMISSION TO THE UNIVERSITY

By Matriculation or equivalent examination.

#### DEGREES, DIPLOMAS AND LICENSES OFFERED BY THE UNIVERSITY

*Degrees.*—B.A. (Pass and Honours); M.A.; B.Sc. (Pass and Honours); B.Com.; B.Sc. (Agriculture); B.Sc. (Engineering—Pass and Honours); M.Sc.; B.Ed.; B.L.; M.B.B.S.

*Diplomas.*—Forestry and Engineering.

*Certificates.*—University Trained Teachers; and Diploma in Engineering.

#### ADMISSION OF NON-COLLEGIATE CANDIDATE TO THE UNIVERSITY EXAMINATIONS

Under Regulation 4A of Chapter VI of the Regulations, candidates who hold a Kindergarten or higher teaching certificate granted by the Commissioner of Examinations, Burma, or the University Trained Teachers' Certificate, and who have taught in a recognised school in Burma for a total period of not less than *two* years are admitted, without undergoing a course of instruction, to:

- (1) the Intermediate Examination in Arts subjects provided that not less than *one* year has elapsed after they have been declared eligible for matriculation in the University;
- (2) the B.A. (Pass) Degree Examination provided that not less than one year has elapsed after they have passed the Intermediate Examination of this University and not less than three years have elapsed after they have been declared eligible for matriculation in the University.

Under Regulation 4B of Chapter VI, of the Regulations, candidates are admitted, without undergoing a course of instruction, to:

- (1) the Intermediate Examination in Arts subjects, provided that not less than *three* years have elapsed after they have been declared eligible for matriculation in this University;
- (2) the B.A. (Pass) Degree Examination, provided that not less than *three* years have elapsed after they have passed the Intermediate Examination of this University.

*Provided* also that subjects which involve practical work may not be offered under the above unless satisfactory evidence is produced that the candidate has carried out under adequate conditions the requisite amount of practical work required for such examination.

NOTE.—Candidates appearing for a University Examination under these Regulations are required to register their names *six* months before the date of Examination.

## ARTS

*Intermediate Examination in Arts.*—Courses extend over two years after Matriculation; a candidate of more than average ability may be permitted to appear for the examination at the end of one year. The subjects for study and examination are:—

(1) English (4 papers), (2) Burmese or Alternative English (one paper), (3), (4) and (5) any *three* of the following (2 papers each):—

History	Economics.
Sanskrit	Chemistry.
Pali	Physics.
Persian	Biology.
Latin	Fine Art.
A Modern European	Local Government and Public
Language	Health.
Mathematics	Burmese.
Logic	Geology.
Geography	

In Chemistry, Physics, Biology, Geography and Geology there is a Practical Examination.

The Standing Committee of the Senate, by instruction defines the combinations of subjects which may be offered at the Intermediate Examination.

*Bachelor of Arts (Pass).*—Courses of study extend over two years after the Intermediate Examination. The subjects for study and examinations are:—

(a) English Composition (2 papers); (b), (c) and (d) three of the following:—

(1) English Language and Literature (3 papers); (2) Burmese Language and Literature (3 papers); (3) Pali and Elementary Sanskrit (3 papers); (4) Persian (3 papers); (5) Latin (3 papers); (6) A Modern European Language (3 papers); (7) History of the Indian Empire (3 papers); (8) Modern History (3 papers); (9) Far Eastern History (3 papers); (10) Economics (3 papers); (11) Philosophy (3 papers); (12) Pure Mathematics (3 papers); (13) Applied Mathematics (3 papers); (14) Chemistry (3 papers); (15) Physics (3 papers); (16) Zoology (3 papers); (17) Botany (3 papers); (18) Geology (3 papers); (19) Geography (3 papers); and (20) Political Science (3 papers).

In addition to the written examination a practical examination is required in each of the subjects, Chemistry, Physics, Zoology, Botany, Geography and Geology.

Successful candidates are not ranked in classes; those who show special proficiency in a subject are declared to have passed with distinction in that subject.

*Bachelor of Arts (Honours).*—Courses extend over three years after the Intermediate Examination:—

(i) Students desiring to proceed to a B.A. Degree with Honours take during the First Year after passing the Intermediate Examination the following course:—

(a) English Composition as prescribed for B.A. Pass candidates; or translation from a Modern European Language as a supplemental subject to their Honours Course.

(b) Two of the subjects prescribed for the B.A. (Pass) Course other than that taken under section (c) below provided that students desiring to proceed to an Honours Course in English Language and Literature shall take one of the subjects prescribed for the B.A. (Pass) Course other than that taken under section (c) below and British Empire History from 1485 A.D.

The courses in these subjects shall be those for the First Year of the B.A. (Pass) Course.

(c) One of the following subjects as the subject in which the candidate desires to proceed to an Honours Degree. The course in this subject in the First Year shall include all the matter studied in the First Year of the Pass B.A. Course in that subject:—

(i) English Language and Literature. (2) Pali. (3) Burmese Language and Literature and Comparative Philology. (4) A Modern European Language. (5) History (Modern History, Indian History or Far Eastern History). (6) Economics. (7) Philosophy. (8) Mathematics. (9) Geography.

(ii) During the Second Year, students take the subjects chosen under sections (a) and (c) above.

The examination in the supplemental subject must be taken at the end of the Second Year of the course provided that, with special permission, the examination in the supplemental subject chosen may be taken at the end of the First Year.

(iii) During the Third Year, students take the subject chosen under section (c) above, and the supplemental subject if the examination in that subject has not already been passed.

*M.A. Degree Course.*—The course for the Degree of M.A. shall be in continuation of the Honours Course for the Degree of B.A. and shall be of not less than one year's duration. The minimum standard for admission to the course shall be Second Class B.A. Honours standard.

The course and the examination to be taken on the completion of the course shall be in one of the following subjects:—

(1) English Language and Literature. (2) Pali, Sanskrit and Indo-European Philology. (3) Oriental Philosophy. (4) History. (5) Economics. (6) Philosophy. (7) (a) Pure Mathematics or (b) Applied Mathematics or (c) Pure and Applied Mathematics. (8) Geography. (9) Burmese Language and Literature and Comparative Philology.

A Pass B.A. graduate or a Third Class Honours graduate, desiring to proceed to the M.A. Degree Course must first pass, at the end of a course ordinarily of two years' duration, a University Qualifying Examination, which shall consist of the B.A. Honours Degree Examination papers in the subject in which he desires to proceed to the M.A. Degree.

**NOTE.**—If, but only if, in doing so, he has fulfilled all the relevant University requirements for the B.A. Honours Degree, he shall be awarded the B.A. Honours Degree.

But on the special recommendation of the Professor of the subject concerned and with the approval of the Standing



Committee of the Senate the Qualifying Examination may be taken at the end of a course of only one year's duration and a graduate of another university who has already taken an equivalent course may be allowed to take the Qualifying Examination without attending the qualifying course.

No candidate shall be allowed to appear for the Qualifying Examination more than once.

Successful candidates in the Qualifying Examination shall not be ranked in classes except as provided for in the note above.

### SCIENCE

*Intermediate Examination.*—See information above.

*Bachelor of Science (Pass).*—Courses of study extend over two years after the Intermediate Examination. The subjects for study and examination are: (a) English Composition (2 papers) and (b, c, d) three of the following: (1) Pure Mathematics (3 papers); (2) Applied Mathematics (3 papers); (3) Chemistry (3 papers); (4) Physics (3 papers); (5) Zoology; (6) Botany; (7) Physiology; (8) Human Anatomy; (9) Geology (4 papers); (10) Geography (3 papers). (Except in Mathematics there is a practical examination in each subject.)

*Bachelor of Science (Honours).*—Courses extend over three years after the Intermediate Examination:—

(i) Students desiring to proceed to a B.Sc. Degree with Honours take, during the first year after passing the Intermediate Examination, the following course:—

(a) English Composition as prescribed for the B.A. Pass candidates or translation from a Modern European Language as a supplemental subject to their Honours Course;

(b) Two of the subjects prescribed for the B.Sc. (Pass) Course other than the subject taken under section (c) below.

The courses in these subjects are those for the first year of this B.Sc. Pass Course.

(c) One of the following subjects as the subject in which the candidate desires to proceed to an Honours Degree. The course in this subject in the First Year includes all the matter studied in the first year of the B.Sc. Pass Course:—

(1) Mathematics. (2) Chemistry. (3) Physics. (4) Zoology. (5) Botany. (6) Geology.

(ii) During the second year, students take the subjects chosen under sections (a) and (c) and except when Mathematics has been chosen under section (c) one of the subjects chosen under section (b) as a subsidiary subject. The examinations in the supplemental and subsidiary subjects must be taken at

the end of the Second Year of the course, provided that, with special permission, the examinations in the supplemental and subsidiary subjects may be taken at the end of the First Year.

(iii) During the Third Year, students shall take the subjects chosen under section (c) above and in addition the supplemental and subsidiary subjects, if the examinations in these subjects have not already been passed.

*M.Sc. Degree Course.*—The course for the Degree of M.Sc. shall be in continuation of the Honours course for the Degree of B.Sc. and shall be of not less than one year's duration. The minimum standard for admission to the course shall be Second Class B.Sc. Honours standard. The course and examination to be taken on the completion of the course shall be in one of the following subjects:—

(1) (a) Pure Mathematics, or (b) Applied Mathematics or (c) Pure and Applied Mathematics. (2) Chemistry. (3) Physics. (4) Zoology. (5) Botany. (6) Geology.

A Pass B.Sc. graduate or a Third Class Honours graduate desiring to proceed to the M.Sc. Degree Course must first pass at the end of a course ordinarily of two years' duration a University Qualifying Examination, which shall consist of the B.Sc. Honours Degree Examination papers in the subject in which he desires to proceed to the M.Sc. Degree.

*NOTE.*—If, but only if, in doing so, he has fulfilled all the relevant University requirements for the B.Sc. Honours Degree, he shall be awarded the B.Sc. Degree.

But on the special recommendation of the Professor of the subject concerned and with the approval of the Standing Committee of the Senate the Qualifying Examination may be taken at the end of a course of only one year's duration and a graduate of another University who has already taken an equivalent course may be allowed to take the Qualifying Examination without attending the Qualifying Course.

No candidate shall be allowed to undergo more than once the complete Qualifying Examination.

Successful candidates in the Qualifying Examination shall not be ranked in classes except as provided for in the note above.

## PROFESSIONAL COURSES OF STUDY AND EXAMINATIONS

### LAW

*First Examination in Law.*—The course of study extends over one year after graduation for whole-time students, 1½ years for part-time students. The subjects for study and examination are:—

1. History of Law, Legislation and Courts (English and Indian) including Maxims of Law and Equity, elementary Roman Law, Jurisprudence and International Law.

2. Criminal Law (Public Protection, General Law of Crime and Procedure at Trials), Evidence.

3. Personal Laws especially Burmese Buddhist—including the Law relating to Minors, Guardians, Marriage, Family Property, Inheritance and Wills (but omitting, until later, the Law relating to the construction of Wills).

4. Contract, Tort, Movable Property (including incorporeal rights, Money Securities and Negotiable Instruments).

*Degree of Bachelor of Law.*—The course of study extends over one year for whole-time students and 1½ years for part-time students of further study after the First Examination in Law. The subjects for study and examination are:—

1. Constitution Law (the Government of India Act, and outlines of the Law of Public Bodies, Revenue, Administration, Communications and Carriers).

2. Property Law (Trusts, Landed Property, Deeds, Transfer of Land—Sale, Exchange, Gift, Mortgage, Lease or License).

3. Joint ownership, Partners, Societies, Companies.

4. Insolvency, Legal Representatives and Administration of Estate.

5. Arbitration, Legal Practitioners, Civil Procedure (with Limitation and Court Fees).

## MEDICINE

*Degree of Bachelor of Medicine and Surgery.*—A candidate after passing the Intermediate Examination must undergo a period of training extending over six years. There are four examinations, the first at the end of the first year, the second at the end of the third year, the third at the end of the fourth year and the final examination at the end of the sixth year.

The subjects for study and examination for the first year are: (1) Inorganic Chemistry, (2) Physics, (3) Botany, and (4) Zoology (two papers in each subject and also a practical examination).

The subjects for study and scheme of examination for the second examination are as follows: (1) Anatomy, (2) Physiology including Histology and Chemical Physiology, (3) Chemistry (Physical and Organic).

The courses leading to the Third M.B.B.S. are: (1) Materia Medica and Pharmacology according to the standards required

by the General Medical Council of Great Britain, (2) Bacteriology and Medical Zoology.

The courses leading to Part I of the Final M.B.B.S. Examination are: (1) General and Special Pathology including Morbid Anatomy and Morbid Histology, (2) Forensic Medicine (including Medico-Legal Post-mortem Examinations), (3) Hygiene and Public Health (including Practical Hygiene and Vaccination).

The courses leading to Part II of the Final M.B.B.S. Examination are: (1) Systematic Medicine, (2) Systematic Surgery, (3) Systematic Obstetrics and Gynæcology, (4) Applied Anatomy and Physiology, (5) Out-patient Clerkship, (6) In-patient Ward Clerkship, (7) Special Departments—Eye, Ear, Nose and Throat, Venereal and Skin, (8) General Hospital work including Anæsthetics, Radiology, Post-mortem work, (9) Special Medical Lectures in Tropical Diseases, Diseases of Children, Tuberculosis, (10) Special Surgical Lectures in Venereal Diseases, Orthopædics, Children's Diseases, (11) Special Therapeutics Lectures in: Dietetics, Mechanical, Electrical Vaccines, and Sera, Lectures on Throat, Nose and Ear and Ophthalmology, (12) Maternity Hospital: The Instruction to fulfil the Regulations of the General Medical Council and to include lectures in: Child Welfare, Pre-natal Care, Causes of excessive infantile mortality, (13) Hospital work: to include instructions in: Operative Surgery, Mental Diseases with attendance at Asylum, Fevers with attendance at the Contagious Diseases Hospital, Dental Surgery.

### ENGINEERING

*Degree of Bachelor of Science in Engineering.*—A candidate is required to study for a period of four years after passing the Intermediate Examination of this University in Mathematics, Physics and Chemistry.

*First Examination in Engineering.*—The course extends over one year. The following courses of study lead to the examination: (1) Heat Engines (1 paper); (2) Electro-technology (1 paper); (3) Machine Drawing (1 paper); (4) Geometrical Drawing (1 paper); (5) Pure Mathematics (1 paper); (6) Applied Mathematics (1 paper).

*Second Examination in Engineering.*—The course extends over one year and is open to candidates who have passed the First Examination in Engineering. The following courses of study lead to the examination: (1) Pure Mathematics (2 papers), (2) Mechanics (2 papers), (3) Mechanism (1 paper), (4) Machine Drawing (1 paper), (5) Heat Engines and Electro-technology (1 paper each).

*Final Examination in Engineering (Pass Course).*—The course extends over two years and is open to candidates who have passed the Second Examination in Engineering. The following courses of study lead to the examination: (1) Strength, Elasticity and Strength of Materials (2 papers); Hydraulics (1 paper); and either (1) Theory of Structures (2 papers); Surveying and Geodesy (2 papers); (2) Geology, Civil Engineering Design and Drawing (1 paper); or (1) Heat Engines and Thermodynamics (2 papers); Electro-technology (2 papers); (2) Industrial Chemistry (1 paper); Mechanical and Electrical Design (1 paper).

There is a *viva voce* Examination.

A candidate is required to show a knowledge of the practical application of engineering principles, materials and processes to engineering work.

*Final Examination in Engineering (Honours Course).*—The course extends over two years and is open to candidates who have passed the Second Examination in Engineering. The following courses of study lead to the Examination: (1) Strength, Elasticity and Testing of Materials (2 papers); (2) Geology, including the identification of the common rock-forming materials (1 paper); (3) Theory of Structures (2 papers); (4) Hydraulics and Hydraulic Machines (2 papers); (5) An Essay on an Engineering subject (1 paper).

There is a *viva voce* Examination.

In addition a candidate is required to submit, not later than the first day of the Final Examination, complete drawings, quantities and specifications of an engineering project selected by the Professor of Engineering and prepared by the candidate during the academic year immediately preceding the Examination.

*Diploma in Engineering.*—Candidates for the Diploma in Engineering shall be required to have satisfied the regulations for Matriculation in the University. They shall attend approved courses of study during not less than four sessions provided that candidates who (1) have passed the Intermediate Examination of the University and in that examination have taken the subjects of Mathematics, Physics and Chemistry; (2) have not passed the Intermediate Examination of the University but have attained pass marks in that examination in the subjects, Mathematics, Physics and Chemistry and are declared by the Standing Committee to have passed the First Examination for the Diploma in Engineering; (3) have passed, in a manner approved by the Standing Committee of the Senate, the examination of a Technical Institute approved by the Standing Committee for the purpose, may be exempted by the

Standing Committee from attendance for the first two years of the course.

*First Examination in Diploma in Engineering.*—The course extends over two sessions and the subjects for the examination are: (1) Mathematics (2 papers), (2) Physics (2 papers and a practical examination), (3) Chemistry (2 papers and a practical examination), (4) English Composition.

*Second Examination in Diploma in Engineering.*—The Second Examination shall be held in March at the end of the first session of study subsequent to passing or exemption from the First Examination. The subjects for the examination are: (1) Heat Engines (1 paper); (2) Electro-technology (1 paper); (3) Building Construction (1 paper); (4) Geometrical Drawing (1 paper); (5) Pure Mathematics (1 paper); (6) Applied Mathematics (1 paper).

*Final Examination in Diploma in Engineering.*—The Final Examination shall be held in March at the end of the first session after passing the Second Examination. The subjects for examination are: (1) Strength of Materials, Mechanism and Theory of Machines (2 papers), (2) Hydraulics and Hydraulic Engines (1 paper), (3) Electro-technology (2 papers), (4) Heat Engines (2 papers), (5) Machine Design (1 paper).

#### FORESTRY

*Degree of Bachelor of Science in Forestry.*—The course of study extends over 3 years after passing the Intermediate Examination except in special cases in which the course may be reduced to 2 years. The subjects for study and examination are: (1) Silviculture, (2) Forest Utilization, (3) Working Plans and Forest Management, (4) Drawing, Surveying and Estimating, (5) Forest Engineering, (6) Botany, (7) Geology, (8) Forest Law, (9) English, (10) Mathematics (10 papers, one paper in each subject).

There is an oral examination and marks are awarded for practical work in the Forests.

*Diploma in Forestry.*—The course extends over two years and is the same as the Degree Course with the omission of English and Mathematics and in the case of probationers for Government Service of Forest Law.

#### B.Sc. (AGRICULTURE)

A candidate after passing the Intermediate Examination of this University with English, Burmese, Chemistry, Physics and Mathematics or Biology, must undergo a course of two years' duration.

The subjects for study and examinations are:—

(a) *Agriculture*.—Two papers of 3 hours' duration each and two practical examinations (including oral) of 3 hours' each.

(b) *Agricultural Botany*.—Two papers of 3 hours' duration each and two practical examinations (including oral) of 3 hours' each.

(c) *Agricultural Chemistry*.—Two papers of 3 hours' duration and one practical examination.

(d) *Entomology and Sericulture*.—One paper of 3 hours' duration and 1 practical examination (including oral) of 4 hours' duration.

(e) *Plant Pathology and Mycology*.—One paper of 3 hours' duration and one practical examination (including oral) of 4 hours' duration.

Candidates for the Degree of B.Sc. (Agriculture) must appear for the examination in Entomology and Sericulture at the end of first session.

*B.Com. Degree Course*.—A candidate after passing the Intermediate Examination of this University with English, Burmese, Mathematics and Economics and one other optional subject must undergo a course of two years' duration.

The subjects for study and examinations are:—

English Composition	..	Two papers (as for B.A. & B.Sc.).
Economics	..	Three papers of B.A. standard.
		I. Principles of Economics, Theory including International Trade and History of Economic Thought.
		II. Theory of Money and Public Finance.
		III. Statistics, and either Rural Economics or Economic History.
Accounting	..	One paper.
Banking and International Exchange	..	One paper.
Commercial Law	..	One paper.
Economic Geography	..	One paper.
Organisation of Industry and Commerce	..	One paper.

### TEACHING

*Bachelor of Education*.—The courses of study extend over two years, after graduation, at the end of which there is an

examination in the following subjects: (1) Psychology of Education (1 paper), (2) History of Education (1 paper), (3) Theory and Practice of Education (1 paper), (4) School Hygiene (1 paper), (5) Principles and Practice of First Aid (oral and practical examination only), (6) The Teaching of English (1 paper), (7) The teaching of any one of the following subjects (candidates must have passed the B.A. or B.Sc. Examination in the subject which they select):—

- (a) Geography.
- (b) History. •
- (c) Burmese or a Language other than English.
- (d) Mathematics.
- (e) Physics and Chemistry.
- (f) General Science.
- (g) Botany and Zoology.
- (h) English (advanced course).
- (i) Domestic Science (for women only).

Only students who have taken First or Second Class Honours in English can be admitted to course (h).

- (8) Drawing and Blackboard work (1 paper).

Candidates must pass a practical test in teaching. Candidates who are certified by the Principal of the Training College as eligible to appear for the practical test may do so towards the end of their course of training. Candidates not included in the above class can only appear for the practical test after completing their course of training and after they have taught for one year in a Government school or in a school recognized by Government.

*University Trained Teachers' Certificate.*—The course of study for the certificate extends over two years. Admission to the course is limited to Matriculates of the University. The courses and written examination for the certificate consist of the following subjects and papers: (1) Principles of Education (1 paper); (2) School Hygiene (1 paper), (3) Principles and Practice of First Aid (oral and practical examination only), (4) The Teaching of English (1 paper), (5) The Teaching of Burmese\* (1 paper), (6) The Teaching of Geography (1 paper), (7) The Teaching of History (1 paper), (8) The Teaching of Mathematics (1 paper), (9) The Teaching of Drawing and Blackboard work (1 paper).

The Principal of the Training College must certify that each candidate who has passed the written examination has

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\* The teaching of Burmese will be included in the subjects of instruction as soon as suitable staff is available and can then be taken as an alternative to one of the subjects (6), (7) or (8).



satisfactorily completed a practical course in teaching. Candidates who fail to secure this certificate are required to appear for a practical test after they have taught for one year in a Government school or in a school recognized by Government.

### Examination Fees

			Rs.
Special Examination for Matriculation	..	..	20
Special Test in English under provisos (b) and (c) of Regulation 3 of Chapter IV	..	..	5
Intermediate	..	..	30
B.A. or B.Sc. (Pass)	..	..	30
B.A. or B.Sc. (Honours)	..	..	40
English Composition only	Rs. 10	}	.. 40
Subsidiary Subject only	Rs. 10		
Main Subject only	Rs. 20		
M.A. or M.Sc.	..	..	40
B.Sc. Engineering Examination—			
First Examination	..	..	30
Second Examination	..	..	40
Final Examination (Pass)	..	..	50
Final Examination (Honours)	..	..	60
Diploma in Engineering Examination—			
First Examination	..	..	30
Second Examination	..	..	40
Final Examination	..	..	40
B.Ed. Examination	..	..	50
U.T.T.C. Examination	..	..	40
Law Examinations—			
First Examination	..	..	50
Final Examination	..	..	50
Medical Examinations—			
First M.B.B.S.	..	..	40
Second M.B.B.S.	..	..	50
Third M.B.B.S.	..	..	50
Final M.B.B.S.	..	..	60
Qualifying Examination for the M.A. or M.Sc. Degree Course	..	..	20
B.Com.	..	..	50
B.Sc. Degree (Agriculture)—			
Examination in Entomology and Sericulture	..	..	10
Degree Examination	..	..	40
Fee for Registration to appear for an Examination as a non-collegiate candidate under Regulations 4A and 4B of Chapter VI	..	..	10

## **The University of Travancore**

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The University of Travancore has been established under Act I of 1113 M.E. promulgated by His Highness the Maharaja of Travancore on the auspicious occasion of His Highness's twenty-sixth birthday, on the 1st November 1937.

The Colleges in Travancore (of which there were 10) were previously affiliated to the University of Madras. During the last twenty years there has been a growing desire among the people of the State to have a University of their own. Two committees, appointed by Government to investigate and report on the desirability and feasibility of a separate University for the State, the first in 1919 and the second in 1924, had reported favourably. But, owing to various causes, no action was taken on the recommendations of the committees. The question of educational reconstruction again engaged the serious attention of Government when His Highness the present Maharaja assumed ruling powers in November 1931. Realizing that the solution of the industrial and agricultural problems of the State demanded a thorough reorientation of educational policy which could be effected only through the establishment of an independent University, designed to meet the particular needs and adapted to the special circumstances of the country, the Government of His Highness the Maharaja decided on the establishment of the University of Travancore.

### **Aims**

As stated in the Preamble of the Act, the chief aims of the Travancore University are:—

- (i) to effect a reorganisation of the system of education in the State with a view to the gradual development of technical and technological education;
- (ii) to make greater and more systematic provision for the furtherance of original research in the various branches of Applied Science; and
- (iii) to provide for the conservation and promotion of Kerala Art and Culture.

### **Character**

The University of Travancore is primarily a teaching University established at Trivandrum. Under the Act, it has no powers of affiliation. The Colleges maintained by Government

have been transferred to the maintenance and control of the University, and the four private Colleges which were already in existence in the State have been admitted to the privileges of the University as a special arrangement under the provisions of the Act.

### Constitution

His Highness the Maharaja of Travancore is the Chancellor of the University and Her Highness the Maharani, His Highness's mother, is the Pro-Chancellor. The Vice-Chancellor is at present, a part-time honorary officer, most of whose duties and functions as the principal executive officer of the University are being discharged by the Pro-Vice-Chancellor, a full-time officer nominated by His Highness the Chancellor. The authorities of the University are:—

- (i) the Senate,
- (ii) the Syndicate, and
- (iii) the Faculties.

*The Senate*, consisting of between 60 and 70 members, is the legislative body of the University and has general superintendence over the affairs, concerns and properties of the University, subject to the ultimate control of Government. In addition to *ex-officio* members like the Vice-Chancellor, Pro-Vice-Chancellor, Director of Public Instruction, Deans of Faculties and Principals of Colleges, the Senate includes also representatives of registered graduates and of the two Houses of the Legislature and a certain number of members nominated by the Chancellor, besides those who may become Life-members by making donations to the University or who may be nominated on the ground of their eminent services in the cause of education. The Senate is to be reconstituted every three years.

*The Syndicate*, consisting of 12 members, forms the executive body of the University and the administration of the affairs of the University and the management of the institutions maintained by the University are vested in the Syndicate.

A Board of Finance and Accounts has been constituted to examine the Budget estimates and to advise the Syndicate on financial matters.

To advise the Senate and the Syndicate in all matters of an academic character, there are Faculties, and Boards of Studies. At present there are six Faculties, *viz.*, those of Arts, Science, Technology (including Engineering), Oriental Studies and Fine Arts, Law, and Education. Boards of Studies have been set up for English, Sanskrit, Tamil, Malayalam,

Philosophy, History and Economics, Mathematics, Physics, Chemistry, Botany, Zoology, Law, Education, Engineering, Textile Technology and European Languages.

## Officers and Staff of the University

### CHANCELLOR

His Highness Sir Bala Rama Varma, G.C.I.E.,  
D.Litt., Maharaja of Travancore

### PRO-CHANCELLOR

Her Highness Maharani Setu Parvati Bayi of Travancore, D.Litt.

### VICE-CHANCELLOR

Sachivottama Sir C. P. Ramaswami Aiyar, K.C.S.I., K.C.I.E., LL.D.,  
Dewan of Travancore

### PRO-VICE-CHANCELLOR

Mr. C. V. Chandrasekharan, M.A. (Oxon.) (*on leave*)  
Dr. K. I. Moudgill, M.A. (Cantab.), D.Sc. (Glasgow), F.I.C.  
(Lond.) (*Acting*).

### REGISTRAR

Mr. P. R. Parameswara Panikkar, M.A.

### DEANS OF THE FACULTIES

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|-----------------------------------|---|
| Arts                              | .. P. G. Sahasranama Iyer, Esq., M.A.,<br>Ag. Principal, H. H. the Maharaja's<br>College of Arts, Trivandrum.                                 |
| Science                           | .. Dr. K. I. Moudgill, M.A. (Cantab.),<br>D.Sc. (Glasgow). F.I.C. (London).<br>Director of Research, University of<br>Travancore, Trivandrum. |
| Oriental Studies and<br>Fine Arts | M.R.Ry. Rao Sahib Mahakavi Sahitya-<br>bhushana Ullur S. Parameswara<br>Iyer, Avl., M.A., B.L., Retired Dewan<br>Peishkar, Trivandrum.        |
| Law                               | .. K. P. Padmanabha Pillai, Esq., B.A.,<br>LL.B. (Cantab.), Bar-at-Law, Princi-<br>pal, H. H. the Maharaja's Law Col-<br>lege, Trivandrum.    |

Education	..	Dr. D. Jivanayagam, M.A., L.T., Ph.D. (Columbia), Ag. Principal, H. H. the Maharaja's Training College, Trivandrum.
Technology	..	T. H. Matthewman, M.Eng., M.I.E.E., Principal, College of Engineering, Trivandrum.

## HEADS OF DEPARTMENTS OF STUDIES

History and Economics		T. Damodaran Nambisan, Esq., M.A.
English	..	P. G. Sahasranama Iyer, Esq., M.A.
Philosophy	..	V. Sundararaja Naidu, Esq., M.A., B.L.
Malayalam	..	Dr. K. Goda Varma, M.A., Ph.D. (Lond.)
Sanskrit	..	V. A. Ramaswami Sastri, Esq., M.A.
Tamil	..	C. Pannirukaiperumal Mudaliyar, Esq., M.A., B.L.
Mathematics	..	R. Srinivasan, Esq., M.A.
Physics	..	V. Sivaramakrishna Iyer, Esq., M.A.
Chemistry	..	K. R. Krishna Iyer, Esq., M.A.
Zoology	..	Dr. C. C. John, M.A., D.Sc. (London), D.I.C. ( <i>Officiating</i> ).
Botany	..	Dr. T. K. Koshy, M.A., Ph.D. (London), F.R.M.S., F.L.S.
Marine Biology and Fisheries		Dr. C. C. John, M.A., D.Sc. (London), D.I.C.
Law	..	K. P. Padmanabha Pillai, Esq., B.A., LL.B. (Cantab.), Bar-at-Law.
Education	..	Dr. D. Jivanayagam, M.A., L.T., Ph.D. (Columbia).
Research in Oriental Studies		M.R.Ry. Rao Sahib Mahakavi Sahitya-bhushana Ullur S. Parameswara Iyer, Avl., M.A., B.L.
Fine Arts	..	Dr. Jayaram Cousins, D.Litt.
Research in Applied Sciences		Dr. K. L. Moudgill, M.A. (Cantab.), D.Sc. (Glasgow), F.I.C. (London).
Textile Technology	..	N. K. Padmanabha Pillay, Esq., F.R.S.A., Medallist, City and Guilds (London).
Forestry	..	Rao Bahadur V. N. Seshagiri Rao, (Madras Forest Service <i>Retd.</i> ).

Director of Physical Education	P. I. Alexander, Esq., B.A., Diploma in Physical Education (Madras), M.P.E. (Springfield, Mass.).
Honorary Professor of Chemistry	Dr. C. R. Harler, B.Sc., Ph.D., F.I.C., Chief Scientific Officer, Kanan Devan Hills Produce Company, Limited, Munnar.

### Institutions maintained by the University

#### H. H. THE MAHARAJA'S COLLEGE OF SCIENCE TRIVANDRUM

Intermediate; B.Sc. in Mathematics, Physics, Chemistry, Botany and Zoology; B.Sc. Honours in Mathematics.	<i>Principal:</i> R. Srinivasan, Esq., M.A. ( <i>Actg.</i> ); 56 other teachers.
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#### H. H. THE MAHARAJA'S COLLEGE OF ARTS TRIVANDRUM

Intermediate; B.A. in History, Philosophy, Malayalam, and Sanskrit; B.A. Honours in English, History and Economics, Malayalam and Sanskrit.	<i>Principal:</i> P. G. Sahasranama Iyer, Esq., M.A. ( <i>Actg.</i> ); 30 other teachers.
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#### H. H. THE MAHARAJA'S COLLEGE FOR WOMEN TRIVANDRUM

Intermediate	<i>Principal:</i> Miss Anna Nidiri, M.A. ( <i>Actg.</i> ); 19 other teachers.
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#### H. H. THE MAHARAJA'S SANSKRIT COLLEGE TRIVANDRUM

Mahopadhyaya	<i>Principal:</i> N. Gopala Pillai, Esq., M.A.; 10 other teachers.
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#### H. H. THE MAHARAJA'S LAW COLLEGE TRIVANDRUM

B.L.	<i>Principal:</i> K. P. Padmanabha Pillai, Esq., B.A., LL.B. (Cantab.), Bar-at-Law; 5 other teachers.
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**H. H. THE MAHARAJA'S TRAINING COLLEGE  
TRIVANDRUM**

**L.T.** .. *Principal*: Dr. D. Jivanayagam, M.A.,  
L.T., Ph.D. (*Actg.*); 9 other teachers.

Attached to the Training College is the Educational Bureau and Museum which lends books to all teachers of recognised Schools and Colleges in the State.

**THE COLLEGE OF ENGINEERING  
TRIVANDRUM**

**B.Sc. (Eng.) in Civil, Mechanical, and Electrical Engineering; Diplomas in Civil, Mechanical and Electrical Engineering.** *Principal*: T. H. Matthewman, Esq., M.Eng., M.I.E.E.; 18 other teachers.

**INSTITUTE OF TEXTILE TECHNOLOGY  
TRIVANDRUM**

**Diplomas in Textile Technology and Textile Chemistry** *Principal*: N. K. Padmanabha Pillay, Esq., F.R.S.A., Medallist, City and Guilds (London); 33 other teachers (12 part-time).

The Institute has been founded with the object of providing technological training to those who intend to take up a career in the textile trade. It offers a three-year Diploma Course in Textile Technology and Textile Chemistry and a two-year Certificate Course in Textile Technology and Textile Chemistry and Embroidery and Knitting. The Embroidery and Knitting Section is intended for lady students. Six students are admitted annually to each of the courses.

The equipment includes a bleaching, dyeing, printing and finishing plant capable of dealing with cloth up to 54" wide. Smaller machines are also provided for bleaching, dyeing, mercerising and knitting.

There is a workshop attached to the Institute. The laboratories of the College of Science have been made available to the students and staff of the Institute. A special library is being organized and important Textile journals are subscribed for. The Institute supplies various kinds of cloth to the several departments of Government.

## Colleges Admitted to the Privileges of the University

### SCOTT CHRISTIAN COLLEGE NAGARCOIL

Intermediate .. *Principal*: G. H. Marsden, Esq., M.A.  
(Cantab.); 11 other teachers.

### C. M. S. COLLEGE, KOTTAYAM

Intermediate .. *Principal*: The Rev. Philip Lea, M.A.  
(Cantab.), 18 other teachers.

### ST. BERCHEMANS' COLLEGE, CHANGANACHERRY

Intermediate; B.A. *Principal*: Rev. Fr. Romeo Thomas,  
in Economics; T.O.C.D., M.A., L.T.; 33 other teachers.  
B.Sc. in Mathe-  
matics, Botany and  
Zoology.

### THE UNION CHRISTIAN COLLEGE ALWAYE

Intermediate; B.A. *Principal*: A. M. Varki, Esq., M.A.,  
in History, Eco- B.L.; 24 other teachers.  
nomics, and Phi-  
losophy; B.Sc. in  
Mathematics and  
Physics.

## Libraries

Each College maintains its own library. The Colleges in Trivandrum have fairly good collections of books; they also subscribe for several important journals. The number of volumes in the library of each College is shown below:—

1. H.H. the Maharaja's College for Women	..	12,398
2. H.H. the Maharaja's Training College	..	11,571
3. Educational Bureau and Museum	..	16,764
4. H.H. the Maharaja's College of Science	..	16,440
5. H.H. the Maharaja's Law College	..	5,000
6. H.H. the Maharaja's College of Arts	..	29,024

To add to the existing facilities, Government have transferred the Trivandrum Public Library to the control of the University. The Trivandrum Public Library contains more than 34,839 volumes. It subscribes for 78 periodicals of which 12 are from Travancore, 44 Indian and the rest British and American.

The University has organised an Oriental Manuscripts Library. The collection contains over 17,900 manuscripts and 2,150 printed books.



### The Trivandrum Observatory

The Trivandrum Observatory which was founded in 1836, was transferred to the control of the University in 1938. The institution is divided into two sections, Astronomical and Meteorological. The Meteorological Section of the Observatory is very well equipped and is recognized by the Government of India as a first class institution. The resources and facilities available in the Observatory are accessible to the students of the University, particularly those working in the Research Department.

### The School of Arts

The School of Arts, founded in 1889, is an institution under the Department of Fine Arts in the University. It provides instruction in drawing and other art-subjects and in some of the crafts (carving in ivory and wood, smithery, pottery and lacquer work). The manufacturing section of the School supplies various articles to Government Departments and private agencies.

### Number of Students in the University

The following table shows the number of students in the respective faculties for the year 1941-42:—

Name of the Institution	Intermediate classes	Arts	Science	Law	Education	Technology	Oriental Studies and Fine Arts
College of Science ..	429	..	403	..	..	..	..
College of Arts ..	200	250	..	..	..	..	..
College for Women ..	251	..	..	..	..	..	..
Sanskrit College ..	..	..	..	..	..	..	95
Training College ..	..	..	..	..	80	..	..
Law College ..	..	..	..	142	..	..	..
College of Engineering ..	..	..	..	..	..	233	..
Institute of Textile Technology ..	..	..	..	..	..	61	..
Scott Christian College ..	250	..	..	..	..	..	..
C.M.S. College ..	273	..	..	..	..	..	..
St. Berchmans' College ..	347	87	91	..	..	..	..
Union Christian College ..	286	81	52	..	..	..	..

Total . 3,611

The total number mentioned above includes 267 post-graduates and 576 women students.

### **Residence, Medical Inspection and Physical Education**

All students not living with their parents or guardians are required to live in approved hostels or lodgings. The University maintains three Hostels, of which one is for women. There are also some approved private hostels in Trivandrum. The mofussil colleges provide residential accommodation for a fair proportion of their students.

Provision has been made for inspection by qualified Medical Officers of students in the Junior Intermediate and Junior B.A. and B.Sc. classes. • Physical Education is at present compulsory for the Intermediate course and the Colleges have on their staffs qualified Physical Instructors. It is proposed to make physical instruction compulsory for all students of the University. Athletics in different forms have been provided for in all Colleges and the Inter-Collegiate Athletic Meet has to its credit a high standard of athletic performance. The University possesses a Tennis stadium which is reputed to be among the best of its kind in India and also another stadium for field-sports. A University Labour Corps has been organized on the lines of the University Training Corps in other Universities. In the training given, emphasis is laid on the use of tools and the students are made to realise the dignity of labour.

### **Associations**

Each of the Colleges has a number of associations interesting themselves in the various subjects of study or branches of athletics. Besides the College Associations, there is also the Travancore University Union which is housed in its own buildings.

### **Budget**

The University is supported by the Government of His Highness the Maharaja. Besides the fees received from students, the main source of income is the contribution from Government. The total estimated income for 1941-42, including the State grant of Sirkar Rs. 8,25,000, is Rs. 11,72,500. The expenditure for the year is estimated at Sirkar Rs. 14,41,590 (including a Capital Expenditure of Rs. 4,00,000 on buildings and equipment).

The employees of the University, except in the case of persons engaged on special terms, are Government servants entitled to the benefits conferred by the State Pension Rules. .

### University Endowments

Each College awards several scholarships and prizes on the basis of examination results and on the basis of poverty. Besides the endowments already in existence in the Colleges when the University was started, the University has received a number of new endowments for the award of medals, prizes, scholarships and lectureships.

(1) *The Meenakshi Amma Medal* awarded to the lady student who obtains the highest number of marks in Malayalam for the B.A. or B.Sc. Examination or B.A. (Hons.) or M.A. Degree Examination in Malayalam.

(2) *The Muttamma Muthunayagom Memorial Gold Medal* awarded to the student who stands first in Music in the B.A. Degree Examination.

(3) *The Rao Sahib Udarasiromani T. Padmanabha Rao Medal* awarded to the best student among those who qualify for a Degree, from the College of Arts or the College of Science.

(4) *The Rao Sahib Udarasiromani T. Padmanabha Rao Scholarship* awarded to a poor student of the Junior Intermediate Class of the College of Arts or the College of Science.

(5) *The Sachivottama Dr. Sir C. P. Ramaswami Aiyar Lectureship*. A lecturer on a remuneration of Rs. 250 appointed every alternate year to deliver a course of four lectures on a topic connected with Public Administration or Indian Art and Architecture.

(6) *The Kerala Varma Valia Koil Thampuran Gold Medal* awarded to the author of the best essay embodying the results of research work on Ancient Vedic Literature, Language or Culture.

(7) *The Sachivottama Prize (Books)* to be awarded to the student who stands first among those who qualify for the Diploma in Textile Chemistry.

(8) *The Sachivottama Dr. Sir C. P. Ramaswami Aiyar Medal* awarded once in two years, for the best literary production in Malayalam and Tamil alternately.

(9) *His Highness the Elaya Raja Prize (Silver Trophy)* awarded to the athlete who secures the highest number of marks in the Annual Inter-Collegiate Athletic Meet.

(10) *The Rao Sahib Subramonia Karayalar Lectureship*. A lecturer on a remuneration of Rs. 400 appointed every alternate year to deliver a course of lectures on some scientific problem of economic value.

(11) *The Andhra University Medal* for research work in Physics or Chemistry.

(12) *The Karthika Thirunal Theatre Fund* for the construction of a theatre named after Her Highness Lakshmi Bayi, First Princess of Travancore.

(13) *The Ananthasiva Aiyar Gold Medals*, awarded to the two students who stand first in Civil Engineering and Mechanical Engineering.

(14) *The Nagam Aiya Medal* for the best essay relating to the History of Kerala, its monarchical traditions and principles.

(15) *The Sachivottama Shashtiabdapurthy Memorial Medal* awarded to the best debater in Malayalam.

(16) *The Sachivottama Shashtiabdapurthy Memorial Prize* awarded to the best among the students who pass the First Examination in Law.

(17) *The Prof. N. Krishnaswamy Iyer Memorial Medal* awarded to the best student who passes B.Sc. Degree with Chemistry as his main subject under Part III.

(18) The Kerala Scholarship of the monthly value of Rs. 12 only tenable for two years awarded to the best student in the Diploma Second Year Class in Textile Chemistry.

(19) H. H. the Maharani of Bikanir Prize for music awarded to the best student among Travancoreans in the College for Women who secures the best mark in Music.

### Provision for Research

The encouragement of research, especially in the various branches of Applied Science, being one of the main objects of the University, several steps have been taken for the realisation of this aim.

Provision has been made in the laws of the University for the award of degrees for research. The M.Sc., PH.D., D.Sc., and D.LITT. degrees are awarded to graduates of this or other recognised Universities on the results of research work carried out in an approved institution, within or outside Travancore.

Research students and Fellows (non-stipendiary and stipendiary) permitted to study in the Departments of the University or under any teacher of the University, are required to pay the following fees:—

Candidates working in Arts Departments      Rs. 30 per annum.  
Candidates working in Science Departments      Rs. 45 per annum.

A Council of Research consisting of Professors in the University, Heads of Departments of Government and representatives of large industrial organisations has been constituted with the Dewan-Vice-Chancellor as Chairman.

The Travancore Central Research Institute has been founded with the object of providing increased facilities for research in Applied Science.

The Institute consists of the following sections:—

- (i) Applied Chemistry, including Organic, Inorganic and Physical Chemistry.
- (ii) Applied Physics and Mathematics, including Astronomy, Meteorology and Statistics.
- (iii) Applied Biology including Plant-breeding, Plant Pathology, Mycology and Entomology.
- (iv) Public Health.
- (v) Bio-Chemistry including Industrial and Agricultural Bio-chemistry and Nutrition Research.
- (vi) Marine Biology and Fisheries.

The University has established a Marine Biological Laboratory and Aquarium for the promotion of marine biological research. The tanks of the Aquarium are the largest on the mainland of Asia. The Department of Marine Biology and Fisheries has published a catalogue of Zoological Specimens available for sale at its Laboratory.

Special emphasis is laid on investigations of direct utilitarian value and as a result commercial and semi-commercial operations have been started either by the Institute alone or in co-operation with manufacturing firms. The manufacture of shark liver oil, the refinement of fuel oil, transport of frozen sea-fish and manufacture of a coagulant for rubber have been undertaken.

The University has instituted twelve Research Scholarships each of the value of Rs. 30 per mensem and four Research Fellowships each of the value of Rs. 50 per mensem.

The following Research Scholarships and Prizes have been endowed:—

(1) *The Maharaja Martanda Varma Prize* of the value of Rs. 300, awarded once in two years to a Travancorean for the best literary or historical work produced.

(2) *The Maharaja Martanda Varma Scholarships* (two) of the value of Rs. 25 per mensem each, tenable for two years, awarded to qualified Travancoreans engaged in research work on Kerala Art and Literature and Kerala History.

(3) *Her Highness the Maharani Setu Parvati Bayi Prize* of the value of Rs. 300 awarded once in two years to a Travancorean for the best scientific monograph dealing with the practical applications of scientific research to industry or agriculture in the State.

(4) *Her Highness the Maharani Setu Parvati Bayi Fellowship* of the value of Rs. 50 per mensem, tenable for one year, awarded to a qualified Travancorean engaged in scientific research with special reference to its application to the industries or agriculture of the State.

(5) *The Sri Chitra Research Scholarship* of the value of Rs. 30 per mensem, for research work in Kerala History or Archæology.

(6) *Her Highness the Maharani Setu Parvati Bayi Lectureship* in Forest Research. A lecturer on a remuneration of Rs. 500 to be appointed every alternate year to deliver a course of lectures on some subject in Forestry.

(7) *The F. X. Pereira Memorial Research Scholarship* of the value of Rs. 25 per mensem for research work on the Chemistry or Geology of the commercial minerals found in Travancore.

(8) *The S. Krishna Iyer Fellowship* of the value of Rs. 1,000 per annum for research work in Agriculture.

(9) *Kanan Devan Scholarships* (three) each of the value of Rs. 25 per mensem, tenable for two years, awarded to qualified Travancoreans engaged in research work in Agriculture.

(10) *Kanan Devan Fellowships* (three) each of the value of Rs. 50 per mensem, tenable for two years, awarded to qualified Travancoreans engaged in research work in Agriculture or other allied subjects.

(11) *Kanan Devan Prize* of the value of Rs. 300 awarded every year to a Travancorean for the best scientific monograph dealing with the practical applications of scientific research to Agriculture in the State.

(12) *H. H. the Princess Karthika Thirunal Research Scholarship* of Rs. 25 per mensem awarded for research work on the commercial crops of Travancore.

### Department of Publications

With a view to enriching Malayalam and Tamil literatures by the production of up-to-date books of literary and scientific interest, a Department of Publications has been instituted. The staff consists of a Superintendent, a Deputy Superintendent and a few assistants.

For the present the Department is devoting itself to (a) the preparation of glossaries of scientific and technical terms in Malayalam, (b) the preparation of a standard Malayalam Grammar, comparative and historical, (c) the production of popular books dealing with scientific and other modern

knowledge, and (d) the translation or adaptation of foreign classics selected for the purpose.

The Tamil Section of the Department confines itself to the collection and publication of Tamil manuscripts bearing on Kerala History. Two committees consisting of eminent scholars have been set up to advice the Department and to supervise its work.

### Lectures

The University arranges for a number of lectures every year. During the year 1940 to 1941 the following Extension Lectures were given:—

- 4 Lectures on "Basic and the Teaching of English in India" by Mr. Adolph Myers, Basic Representative in India.
- 2 Lectures on "The Optical Properties of Aromatic Molecules" by Dr. K. S. Krishnan, D.Sc., F.R.S., F.N.I., Mahendralal Professor of Physics, Indian Association for Advancement of Science, Calcutta.
- 1 Lecture on "The Problem of Nutrition" by Dr. W. R. Aykroyd, Director, Nutrition Research Laboratories, Coonoor. (Illustrated with slides.)
- 1 Lecture on "Japanese Folklore" by Prof. E. E. Speight, formerly of the Imperial University, Tokyo.
- 1 Lecture on "Indian Art" by Mr. Fyzee Rahamin, Bombay. (Illustrated with slides.)
- 4 Lectures on "Nutrition" by Dr. C. O. Karunakaran, M.B.B.S., D.T.M. & H.D., P.H. (Cam.), D.B. (London), Superintendent, Public Health Laboratory, Trivandrum.
- 5 Lectures on the "Early History of Kerala" by Mr. T. M. Krishnamachari, M.A., B.L., Retired Professor of History, College of Arts, Trivandrum.
- 5 Lectures on "Champu Kavyas" by M.R.Ry. Rao Sahib Mahakavi Sahityabhushana Ullur S. Parameswara Aiyar, Avl., M.A., B.L., Dean, Faculty of Oriental Studies and Fine Arts, Trivandrum.
- 15 Lectures on "The Teaching of Malayalam" by Mr. Kainikara M. Kumara Pillai, M.A., L.T., Headmaster, N.S.S. School, Karuvatta.

### Women's Education

H. H. the Maharaja's College for Women provides instruction for the Intermediate course. The College is partly residential, accommodation for a limited number of students being provided in a building situated on the premises of the

College. Women students are also admitted to the other Colleges. The total number of women students in the University during the year 1941-42 was 576.

### Degrees, Diplomas, etc.

The University offers in Arts, the Degrees of B.A. (Pass and Honours), M.A., PH.D., and D.LITT.; in Science, the Degrees of B.Sc. (Pass and Honours), M.Sc., PH.D., and D.Sc. The professional Degrees are Licentiate in Teaching, Bachelor of Laws and Bachelor of Science (Engineering). There are also Diplomas in Textile Technology, Textile Chemistry, Civil, Mechanical, Electrical Engineering and Forestry. In Oriental Studies, the University confers the title of Mahopadhyaya (in Sanskrit), Sahityavisarada (in Malayalam) and Vidvan (in Tamil).

The Degrees of D.Sc., D.LITT., and LL.D. may be conferred as Honorary Degrees also.

### Courses of Study

*Intermediate Examination in Arts and Science.*—The Intermediate course forms part of and leads to the course for the Degree and only those who are holders of the English School Leaving Certificate issued by the Director of Public Instruction, Travancore, and declared eligible for admission to a course of study in this University or have passed an examination recognized by the Syndicate as equivalent to it, are admitted to the course.

The course extends over two years. The subjects of study and scheme of examination are as follows:—

Part I—English (Prose, Poetry and Composition).

Part II—A Second Language.

The course will comprise prescribed text-books, grammar, translation and in the case of Modern Indian Languages, original composition. One of the following languages may be offered:—

(a) Classical	..	..	Sanskrit
			Arabic
			Syriac
(b) Modern	(i) European	..	French
	(ii) Indian	..	Urdu
			Tamil
			Hindi
			Malayalam



Part III—Three subjects to be selected out of the following:—

Mathematics  
Physics  
Chemistry  
Biology  
Geography  
Logic  
Indian History  
Ancient History  
Modern History and  
Music.

There will be three papers in English, two papers in the Second Language and two papers in each of the subjects offered under Part III.

A candidate shall be declared to have passed the Intermediate Examination if he appears for all the three Parts at the same examination and obtains not less than 35 per cent. of the marks in each part. Those who obtain not less than 50 per cent. of the total number of marks shall be placed in the First Class. All other successful candidates shall be placed in the Second Class. Successful candidates who obtain not less than 60 per cent. of the marks in any subject shall be declared to have gained distinction in that subject.

*Bachelor of Arts (B.A.).*—The course of study extends over a period of two years after the Intermediate Examination. The subjects of study and scheme of examination are as follows:—

Part I—English—Shakespeare, Modern Poetry, Modern Prose, Composition (4 papers).

Part II—Second Language—(2 papers) one of the following:—

(a) Classical—Sanskrit, Arabic, Syriac.

(b) Modern—(i) European: French, German; (ii) Indian: Malayalam, Tamil, Hindi, Urdu.

Part III—Optional subjects. One of the following groups:—

Group (i-a) Philosophy (5 papers).

(i-b) Philosophy (5 papers).

(ii-a) History and Economics (5 papers).

(ii-b) Economics and History (5 papers).

(iii-a) Sanskrit and Early Indian History (6 papers).

(iii-b) Malayalam or Tamil with Sanskrit or Early South Indian History (6 papers).

The minimum for a pass is 35 per cent. in Part I, 35 per cent. in Part II and in Part III, 30 per cent. in each division of the

optional groups and 35 per cent. of the total. Successful candidates getting not less than 60 per cent. are placed in the First Class, those obtaining not less than 50 per cent. are placed in the Second Class and those obtaining less than 50 per cent. are placed in the Third Class. Provision has also been made by which Bachelors of Arts may qualify in a different optional group or different second language. Such candidates are required to undergo a course of one year in a College in the new subject selected.

*Bachelor of Arts (Honours) [B.A. (Hons.)].*—The course extends over a period of three years after the Intermediate Examination. A candidate for Honours is required to pass a Preliminary Examination in English in (i) Composition and (ii) Nineteenth Century Prose. In the case of candidates who have selected Branch III [English Language and Literature, the Preliminary Examination will be in (i) Composition as above and (ii) The History of England treated in relation to the History of the English Language and Literature]. The subjects of study for the Final Examination are as follows:—

Branch I.—Philosophy (details have not been settled).

Branch II.—History and Economics (7 papers).

Branch III.—English Language and Literature (9 papers).

Branch IV.—Sanskrit Language and Literature (9 papers).

Branch V.—Malayalam Language and Literature (9 papers).

In addition to the papers mentioned above, there is a *viva voce* Examination.

No candidate will be permitted to undergo the complete Final Examination more than once. The minimum for a pass is 40 per cent. of the total marks and not less than 30 per cent. in each division of the examination. Successful candidates getting not less than 60 per cent. are placed in the First Class, those getting not less than 50 per cent. are placed in the Second Class and the rest are placed in the Third Class. Those who fail in the B.A. (Hons.) Examination but have obtained  $33\frac{1}{3}$  per cent. of the total and at least 25 per cent. in each division of the Examination are recommended for the B.A. Degree.

*Master of Arts (M.A.).*—A candidate who has passed the B.A., or B.Sc. Degree Examination of this University or some other equivalent examination will be permitted to appear for the M.A. Degree Examination after he has undergone the prescribed course of study for a period of not less than two years in a College. The courses of study, syllabuses, subjects for examination, schemes of examination and time-tables for the M.A. Degree Examination are the same in all Branches as

for the Final Examination for the B.A. (HONS.) Degree, in the subjects in the corresponding Branch.

*Bachelor of Science (B.Sc.).*—The course of study extends over two years after the Intermediate Examination. The subjects of study and scheme of examination are:—

Part I—English.

Part II—Second Language and

Part III—Optional subjects.

The courses of study for Parts I and II are the same as those prescribed for the B.A. Degree Examination.

### *Part III. Optional Subjects*

One of the following groups of subjects may be taken at the option of the candidate:—

<i>Main</i>	<i>Subsidiary</i>
(i-a) Mathematics	
(i-b) Mathematics	Physics
(ii-a) Physics	Mathematics
(ii-b) Physics	Chemistry
(iii-a) Chemistry	Physics
(iii-b) Chemistry	Botany
(iii-c) Chemistry	Zoology
(iv-a) Botany	Chemistry
(iv-b) Botany	Zoology
(v-a) Zoology	Chemistry
(v-b) Zoology	Botany

The examination in the subsidiary subject will be of a less advanced character than that in the same subject of the main standard.

The scheme of examination is as follows:—

#### *Groups—*

- (i-a) Mathematics, 6 papers.
- (i-b) Mathematics Main, 4 papers; Physics Subsidiary, 2 papers and a practical examination.
- (ii-a) Physics Main, 4 papers and a practical examination; Mathematics Subsidiary, 2 papers.
- (ii-b) Physics Main, 4 papers and a practical examination; Chemistry Subsidiary, 2 papers and a practical examination.
- (iii-a) Chemistry Main, 3 papers and a practical examination; Physics Subsidiary, 2 papers and a practical examination.

- (iii-b) Chemistry Main, 3 papers and a practical examination; Botany Subsidiary, 2 papers and a practical examination.
- (iii-c) Chemistry Main, 3 papers and a practical examination; Zoology Subsidiary, 2 papers and a practical examination.
- (iv-a) Botany Main, 2 papers and a practical examination; Chemistry Subsidiary, 2 papers and a practical examination.
- (iv-b) Botany Main, 2 papers and a practical examination; Zoology Subsidiary, 2 papers and a practical examination.
- (v-a) Zoology Main, 2 papers and a practical examination; Chemistry Subsidiary, 2 papers and a practical examination.
- (v-b) Zoology Main, 2 papers and a practical examination; Botany Subsidiary, 2 papers and a practical examination.

The minimum for a pass is 35 per cent. in Part I, 35 per cent. in Part II and in Part III 30 per cent. in each division of the optional groups and 35 per cent. of the total. Successful candidates getting not less than 60 per cent. are placed in the First Class, those obtaining not less than 50 per cent. are placed in the Second Class and those obtaining less than 50 per cent. are placed in the Third Class. Provision has also been made by which Bachelors of Science may qualify in a different optional group. Such candidates are required to undergo a course of one year in a college in the new subject selected.

*Bachelor of Science (Honours) [B.Sc. (Hons.)].*—The course extends over a period of 3 years after the Intermediate Examination. A candidate for Honours is required to pass a Preliminary Examination in English (2 papers, English Composition and Nineteenth Century Prose). The subjects of study for the Final Examination are as follows:—

In all branches other than Branch I—Mathematics candidates are required to offer one of the following as the main subject and another of these or Mathematics as the Subsidiary subject:—

1. Physics.
2. Chemistry.
3. Botany.
4. Zoology.

The examination in the Subsidiary subject consists of two papers and a practical examination.

*Branch I—Mathematics.*—There will be 8 papers, each of 3 hours' duration; 3 papers are set in Pure Mathematics, 3 in Applied Mathematics and one in each of the two optional subjects selected.

*Branch II—Physics.*—There will be 6 theory papers, each of 3 hours' duration and 4 practicals, each of 3 hours' duration. Marks are also allotted for laboratory note books.

*Branch III—Chemistry.*—The examination in the main subject consists of 5 theory papers, each of 3 hours' duration and 4 practicals, each of 6 hours' duration. Marks are also allotted for laboratory note books.

*Branch IV—Botany.*—The examination in the main subject consists of 5 theory papers, each of 3 hours' duration and 4 practicals, each of 3 hours' duration. Marks are also allotted for laboratory note books and plant collections.

*Branch V—Zoology.*—The examination in the main subject consists of 5 theory papers, each of 3 hours' duration and one paper of 3 hours' duration in the special subject chosen. There are 3 practicals, each of 3 hours' duration in the main subject and one of two hours' duration in the special subject. Marks are also allotted for laboratory note books and micro-slides.

No candidate will be permitted to undergo the complete Final Examination more than once. The minimum for a pass is 40 per cent. of the total marks and not less than 30 per cent. in each division of the examination. Successful candidates getting not less than 60 per cent. are placed in the First Class, those getting not less than 50 per cent. are placed in the Second Class and the rest are placed in the Third Class. Those who fail in the B.Sc. Honours Examination but have obtained  $33\frac{1}{3}$  per cent. of the total and at least 25 per cent. in each division of the examination are recommended for the B.Sc. Degree.

*Master of Science (M.Sc.).*—A candidate who has passed the B.Sc. Degree Examination of this University or some other equivalent examination will be permitted to appear for the M.Sc. Degree Examination after he has undergone the prescribed course of study for a period of not less than two years in a College. The course of study, syllabuses, subjects for examination, schemes of examination and time-tables for the M.Sc. Degree Examination shall be the same in all Branches as for the Final Examination for the B.Sc. Honours Degree, in the subjects in the corresponding Branch.

*Degree of Licentiate in Teaching (L.T.).*—Graduates of this or of any other recognized University who have undergone the prescribed course of study for a period of one year will be admitted to the examination.

The course shall include:—

- (i) A. General Principles of Education.
- B. Educational Psychology.
- C. General Methods.
- D. School Organization and Hygiene.
- E. Methods appropriate to the teaching of two of the following subjects:
  - (a) An Indian Language.
  - (b) English.
  - \* (c) Primary Education.

\* This title is subject to revision.

- (d) Mathematics.
- (e) Physical Science.
- (f) Natural Science.
- (g) History.
- (h) Geography.
- (i) Domestic Science.
- (j) Music.

In connection with each of the subjects detailed under E a special unit of study shall be specified each year for more intensive treatment.

(ii) Practical training, including observation of and practice in teaching; the making of teaching equipment; school organization.

(iii) Candidates shall undergo courses in (a) Physical Education and (b) Art or Music or Crafts as prescribed by the College.

The scheme of examination is as follows:—

*Written Examination:*

1. Theory of Education A.B. (This paper shall consist of two questions under A and 4 questions under B.).
2. General Methods C.
3. School Organization and Hygiene D.
4. Methods of Teaching E. Optional Subjects:
  - (a) An Indian Language.
  - (b) English.
  - (c) Primary Education.
  - (d) Mathematics.
  - (e) Physical Science.
  - (f) Natural Science.
  - (g) History.
  - (h) Geography.
  - (i) Domestic Science.
  - (j) Music.

No candidate shall be declared to be qualified for the L.T. Degree unless he has passed the written examination and unless his practical work has been declared satisfactory by the Principal of the College. The minimum for a pass will be 35 per cent. in each of the 5 papers and not less than 40 per cent. in the 5 papers taken together. Of the successful candidates those who obtain not less than 60 per cent. of the total marks shall be placed in the First Class, those who obtain not less than 50 per cent. shall be placed in the Second Class and the rest shall be placed in the Third Class. Successful candidates who obtain not less than 60 per cent. of the marks in a paper relating to the Methods of Teaching shall be deemed to have obtained distinction in that subject.

*Bachelor of Law (B.L.).*—Graduates in Arts or Science of this or other recognised University are admitted to the course which extends over two years. The first Examination in Law which is held at the end of the first year consists of the following papers:—

Jurisprudence (1 paper).

Roman Law (1 paper).

The Law of Contracts including Negotiable Instruments and Specific Relief Act (2 papers).

The Law of Torts (1 paper).

Indian Constitutional Law (1 paper).

The minimum for a pass is 40 per cent. of the total marks and not less than one-third of the marks in each division of the examination. Those who obtain not less than 60 per cent. are placed in the First Class, those obtaining 50 per cent. are placed in the Second Class and the remaining successful candidates are placed in the Third Class.

The Final Examination (B.L.) is open to those who having passed the First Examination in Law have undergone the prescribed course of study for one academic year.

The Final Examination consists of the following papers:—

(i) The Law of Property with special reference to the Transfer of Property Act, the Indian Trusts Act and the Indian Easements Act (2 papers).

(ii) Hindu Law including Marumakathayam Law (1 paper).

(iii) Muhammadan Law (1 paper).

(iv) The Principles of Land Tenures in the Madras Presidency (the paper includes Madras Land Tenures, Madras Estates Land Act, Malabar Tenancy Act and the Travancore and Cochin Tenancy Acts) (1 paper).

(v) The Law of Evidence (1 paper).

(vi) Criminal Law (Indian Penal Code) (1 paper).

The minimum for a pass is 40 per cent. of the total marks and one-third of the marks in each division of the examination. Successful candidates who obtain not less than 60 per cent. of the total marks shall be placed in the First Class and those who obtain not less than 50 per cent. shall be placed in the Second Class. All other successful candidates shall be placed in the Third Class.

*Bachelor of Science (Engineering) [B.Sc. (Eng.)].*—The minimum qualification for admission to the Degree course is the Intermediate Examination of this University with Mathematics, Physics and Chemistry as optionals or any other examination accepted by the Syndicate as equivalent thereto. The course of study extends over 4 years and a fifth year has to be spent in practical training in approved workshops or on approved engineering works.

*First Examination in Engineering, Part I.*—The course extends over one academic year. The following are the subjects for study and examination:—

*Group A.*—Mathematics and Mechanics.

*Group B.*—Applied Physics and Engineering Chemistry.

*Group C.*—Building Materials and Construction, Surveying.

*Group D.*—Practical Geometry and Engineering Drawing.

The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. of the sessional marks and 50 per cent. of the total marks (examination *plus* sessional marks).

*First Examination in Engineering, Part II.*—The course extends over one academic year after passing the First Examination in Engineering, Part I, the following being the subjects for study and examination:—

*Group A.*—Mathematics and Theory of Machines.

*Group B.*—Heat Engines and Electrical Technology.

*Group C.*—Strength of Materials, Building Materials and Construction.

*Group D.*—Surveying and Engineering Drawing.

The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. of the sessional marks and 50 per cent. of the total marks (examination marks *plus* sessional marks *plus* 3/10 of the 1st year's marks).

*B.Sc. Degree Examination in Engineering, Part I.*—The course extends over one academic year after passing the First Examination in Engineering, Part II, and consists of 3 branches, the subjects for study and examination being as follows:—



(a) *Civil Engineering.*—*Group A.*—Mathematics and Strength of Materials.*Group B.*—Hydraulics and Hydraulic Machinery. Heat Engines. Electrical Technology.*Group C.*—Surveying, Docks and Harbours.(b) *Mechanical Engineering.*—*Group A.*—Mathematics and Strength of Materials.*Group B.*—Hydraulics and Hydraulic Machinery. Heat Engines and Electrical Technology.*Group C.*—Theory of Machines. Design of Structures and Machines. Workshop Appliances and Practice.(c) *Electrical Engineering.*—*Group A.*—Mathematics and Strength of Materials.*Group B.*—Hydraulics and Hydraulic Machinery. Heat Engines. Electrical Technology.*Group C.*—Theory of Machines. Electrical Machinery. Electrical Measurements and Measuring Instruments.

Each candidate is required to take up the subjects prescribed for the branch he chooses. The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. of the sessional marks and 50 per cent. of the total marks (examination marks *plus* sessional marks *plus* 5/10 of the 2nd year's marks).

*B.Sc. Degree Examination in Engineering, Part II.*—The course extends over one academic year after passing the B.Sc. Degree Examination in Engineering, Part I, and consists of 3 branches, the subjects of study and examination being as follows:—

(a) *Civil Engineering.*—*Group A.*—Theory of Structures.*Group B.*—Irrigation and Water-ways. Sanitary Engineering and Water-supply.*Group C.*—Engineering Economics and Accounts. Roads, Railways and Bridges. Surveying.(b) *Mechanical Engineering.*—*Group A.*—Heat Engines. Hydraulic Machinery.*Group B.*—Design of Power Plant.*Group C.*—Engineering Economics and Accounts. Workshop Administration. Electrical Generation and Distribution.

*(c) Electrical Engineering.—**Group A.*—Electrical Machinery.*Group B.*—Electrical Generation and Distribution. Electrical Transmission.*Group C.*—Electrical Traction. Electrical Communications. Engineering Economics and Accounts.

Each candidate is required to take up the subjects prescribed for the branch which he selected for the B.Sc. Degree Examination in Engineering, Part I.

The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. of the sessional marks and 50 per cent. of the total marks (examination marks *plus* sessional marks *plus* 7/10 of the marks secured for the B.Sc. Degree Examination, Part I).

After one year of approved practical training successful candidates will be admitted to the Degree of B.Sc. (Eng.). Successful candidates who obtain not less than 70 per cent. of the total marks shall be placed in the First Class, those who obtain not less than 60 per cent. shall be placed in the Second Class and the rest shall be placed in the Third Class. Candidates obtaining not less than 80 per cent. of the total marks shall be declared to have passed the Examination with Honours.

## DIPLOMA IN ENGINEERING

The minimum qualification for admission to the Diploma course is the Travancore English School Leaving Certificate Examination with eligibility for admission to a University courses of study or any other examination accepted by the Syndicate as equivalent thereto. The course of study which extends over 4 years is of the 'Sandwich' type, two years being spent at College and two years in workshops or on approved Engineering works.

*Diploma Examination in Engineering, Part I.*—(To be held at the end of the Second Year.)

The course extends over two academic years. The following are the subjects for study and examination:—

*Group A.*—Mathematics and Strength of Materials.*Group B.*—Heat Engines and Electrical Engineering.*Group C.*—Hydraulics, Building Materials and Construction.*Group D.*—Estimating, Surveying and Engineering Drawing.

The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. of the sessional marks and 50 per cent. of the total marks (examination marks *plus* sessional marks *plus* 3/10 of the first year's marks).

*Diploma Examination in Engineering, Part II.*—(To be held at the end of the Fourth Year.)

The course extends over two academic years, after passing the Diploma Examination in Engineering, Part I, and consists of three branches, the subjects for study and examination being as follows:—

(a) *Civil Engineering.*—

*Group A.*—Strength of Materials, Theory of Structures and Irrigation.

*Group B.*—Water Works, Sanitary Engineering, Roads, Bridges and Earth Work.

*Group C.*—Surveying, Reinforced Concrete and Steel Work.

(b) *Mechanical Engineering.*—

*Group A.*—Heat Engines, Strength of Materials and Theory of Structures.

*Group B.*—Theory of Machines, Hydraulics and Hydraulic Machinery.

*Group C.*—Machine Design, Workshop Appliances and Workshop Practice.

(c) *Electrical Engineering.*—

*Group A.*—Electrical Machinery.

*Group B.*—Electrical Generation, Distribution and Transmission.

*Group C.*—Electrical Traction and Communications.

The minimum for a pass will be 35 per cent. of the marks in each group of written papers, 60 per cent. in sessional work and 50 per cent. of the total marks (examination *plus* sessional and works practice marks *plus* 7/10 of the 3rd year's marks).

Successful candidates will be awarded the Diploma in Engineering. Candidates who obtain not less than 70 per cent. of the total marks shall be placed in the First Class, those who obtain not less than 60 per cent. shall be placed in the Second Class, and those who obtain not less than 50 per cent. shall be placed in the Third Class. Candidates who obtain not less than 80 per cent. of the total marks shall be declared to have passed the examination with Distinction.

#### DIPLOMA COURSES IN TEXTILE TECHNOLOGY AND TEXTILE CHEMISTRY

The minimum qualification for admission to the courses is the English School Leaving Certificate with eligibility for admission to a University Course of Study and 50 per cent. of the total marks and not less than 60 per cent. in Elementary

Mathematics and Elementary Science combined. The course of study extends over three years.

*Textile Technology.*—The course consists of theoretical and practical instruction in the following subjects:—Mathematics, Mensuration, Chemistry, Physics, Freehand Drawing, Model Drawing, Practical Weaving, Sketching of Textile Machinery, Textile Fibres and Spinning, Weaving Mechanism, Fabric Structure, Weaving and Spinning, Calculations, Design and Analysis of Cloth, Preparation of Yarn, Historic Ornamentation, Spinning, Engineering Drawing, Mechanics of Shop Practice, Mechanics, Dyeing, Bleaching, Printing and Finishing.

*Textile Chemistry.*—The course consists of theoretical and practical instruction in the following subjects:—Freehand Drawing, Model Drawing, Mathematics, Chemistry, Physics, Textile Fibres and Spinning, Classification and Testing of Fibres, Workshop Practice (Carpentry and Smithery), Weaving, Dyeing and Printing, Chemistry of Textile Fibres, Construction of Works and Machine Drawing, Costing and Estimating, Technology of Bleaching, Mercerising, Printing and Finishing.

The First Examination in Textile Technology or Textile Chemistry is held at the end of the second year of the Course, and the Diploma Examination at the end of the third year. Candidates who obtain not less than 40 per cent. of the total marks and not less than 35 per cent. in each subject or group of subjects shall be declared to be eligible for Diploma in that Group. Those who obtain 60 per cent. of the marks in any subject or group of subjects shall be deemed to have passed with distinction in that subject or group of subjects.

#### DIPLOMA COURSE IN FORESTRY

The minimum qualification for admission to the Diploma course in Forestry is a pass in the Intermediate Examination of this University with Biology, Physics and Chemistry as optional subjects or any other examination recognised by the Syndicate as equivalent thereto.

The course extends over a period of 2½ years, of which 6 months will be devoted to practical training in the forests of the State. The course is more or less of the standard of the Ranger's course at the Indian Forest Ranger's College, Dehra Dun. The course consists of theoretical and practical training in the following groups of subjects:—

1. Silviculture and Forest Utilisation.
2. Range Administration, Law and Forest Management.
3. Engineering, Surveying and Drawing.

4. Botany, Mycology and Forest Entomology.
5. Physical Science, First Aid, and Hygiene, Drill and Physical Training.

The minimum for a pass is 35 per cent. of the marks in each group and not less than 40 per cent. of the total marks. Successful candidates who obtain not less than 60 per cent. of the total marks shall be declared to have passed the examination with Honours.

### **Titles in Oriental Studies**

*Mahopadhyaya (Sanskrit).*—Admission to the Mahopadhyaya course is open to those who have passed the Sanskrit Entrance Examination conducted by this University or any other equivalent examination.

The Sanskrit Entrance Examination is open to all candidates who have passed the Sastri Test conducted by the Travancore Education Department. The subjects for the Examination are:

- (i) Sahitya,
- (ii) Vyakarana,
- (iii) Nyaya and Mimamsa and
- (iv) English.

The course of study for the Mahopadhyaya title extends over a period of 4 years and consists of two parts, the Preliminary and the Final. The Preliminary Examination held at the end of the second year consists of two parts:—

Part I—General: Prescribed Text-books and

Part II—Special: One of the following branches of study:—  
Nyaya, Vyakarana, Sahitya, Jyotisha,  
Vedanta or Mimamsa.

The Final Examination at the end of the fourth year consists of two parts—Part I: General—The History of Sanskrit Language and Literature; Part II: Special—one of the following branches of study:—

Nyaya, Vyakarana, Sahitya, Jyotisha,  
Vedanta, or Mimamsa.

The minimum for a pass in the Preliminary and Final Examinations is 40 per cent. of the total marks of the examination. A candidate who obtains not less than 60 per cent. of the total marks for the Final Examination shall be declared to have passed the Examination with distinction.

*Sahityavisarada (Malayalam) and Vidvan (Tamil) Examinations.*—Candidates for the Sahityavisarada or Vidvan Examinations should have passed the Malayalam or Tamil High School

Examination or the Sastri Test of the Travancore Education Department. Besides the main language (Malayalam or Tamil) candidates have to offer a subsidiary second language, Tamil or Sanskrit for the Sahityavisarada examination and Sanskrit or Malayalam for the Vidvan Examination. English will be the compulsory second language for both the examinations.

The course of study for each examination extends over a period of two academic years. The subjects for the examinations and the divisions are as follows:—

Division 1.—*Main language*—Prescribed text-books, Grammar, History of Language and Composition (5 papers).

Division 2.—*Subsidiary second language*—Prescribed text-books (one paper).

Division 3.—*Compulsory second language*—Prescribed text-books (one paper).

The minimum for a pass is 40 per cent. in Division 1 and 30 per cent. each in Divisions 2 and 3.

Successful candidates who obtain not less than 60 per cent. of the aggregate marks shall be placed in the First Class, those who obtain not less than 50 per cent. shall be placed in the Second Class. All other successful candidates shall be placed in the Third Class.

### Examination Fees

	Rs.
Intermediate Examination .. ..	25
B.A. and B.Sc. .. ..	48
B.A. (HONS.) and B.Sc. (HONS.) Degree Examinations:	
Preliminary .. ..	15
Final .. ..	60
M.A. and M.Sc. .. ..	60
L.T. .. ..	20
F.L. Examination .. ..	40
B.L. .. ..	50
First Examination in Engineering—	
Part I .. ..	25
Part II .. ..	25
B.Sc. Degree Examination in Engineering—	
Part I .. ..	30
Part II .. ..	30

			Rs.
Diploma Examination in Engineering—			
Part I	..	..	25
Part II	..	..	30
First Examination in Textile Technology or Textile Chemistry	..	..	20
Diploma Examination in Textile Technology or Textile Chemistry	..	..	25
Diploma Examination in Forestry	..	..	50
Mahopadhyaya Examination—			
Preliminary	..	..	12
Final	..	..	12
Sahityavisarada Examination	..	..	12
Vidvan	..	..	12

FEES FOR SUBMISSION OF THESIS FOR RESEARCH  
DEGREES

M.Sc.	..	..	..	100
Ph.D.	..	..	..	150
D.Sc.	..	..	..	200
D.Litt.	..	..	..	200

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## APPENDIX

### I

#### Bhandarkar Oriental Research Institute, Poona

1. *History.*—The idea of establishing an Oriental Institute offering facilities to research workers and at the same time commemorating the work and the name of the late Sir R. G. Bhandarkar originated towards the middle of 1915. The scheme was received enthusiastically; and with public support, Government sympathy, and chiefly the noble aid rendered by the Tatas and the Jain community, the scheme soon materialised and the Institute was formally inaugurated by H. E. Lord Willingdon on the 6th of July 1917, the eightieth birthday of Sir Rama-krishna, when a volume of commemorative essays written for the occasion by several Indian and European scholars was also presented to him. The Institute began its literary work in October 1918, when the Government of Bombay were pleased to transfer to the Institute the MSS. Library formerly at the Deccan College (together with the annual maintenance grant of Rs. 3,000) as also to hand over to the Institute the management of the Bombay Sanskrit and Prakrit Series, together with a yearly grant of Rs. 10,000 set aside for that purpose. The Main Hall of the Building named, "The J. N. Tata Research Hall", was occupied in 1918, and the two side Halls, named "The Khetsi Khiasi MSS. Hall" and the "Ratan Tata Iranian and Semitic Hall", were occupied in 1922. The total expense on the whole building has been Rs. 1,50,000.

2. *Work.*—(i) *The Mahabharata Department* is engaged in bringing out a Critical Edition of the Great Epic of India. The edition has been universally acknowledged as a monumental work of scholarship. In 1939 the British Academy, London, expressed its appreciation of this Edition by the award of a token grant to the Institute. Four volumes of the edition are already out. Parts of the edition are not sold singly. For forms of subscription (which can be paid in lump or by instalments) apply to the Secretary, Mahabharata Editorial Board. General Editor: Dr. V. S. Sukthankar.

(ii) *The Manuscripts Department* contains some 20,000 Sanskrit and Prakrit MSS., which are lent to all *bona fide* scholars under certain conditions. The MSS. were collected for



Government by Bühler, Kielhorn, Bhandarkar, Peterson, Kathawate, Pathak and others, since 1866, and they form one of the largest and most valuable collections of Hindu and Jain MSS., a collection which is being properly catalogued and looked after by the Institute. Upto now nine volumes of the Descriptive Catalogue of MSS. have been published.

(iii) *The Iranian and Semitic Department* was created in 1920 for the collection and preservation of Avesta, Pehlavi, Persian and Arabic MSS. A number of old and rare MSS. have been already collected and a library of printed books pertaining to these subjects is also being built up. One of the immediate programmes of the Department is to arrange for the study of Avestan Literature in conjunction with Vedic Literature.

(iv) *The Publication Department*, besides conducting the work of the *Bombay Sanskrit and Prakrit Series*, has started a new Series called the *Government Oriental Series*, which includes texts as well as independent original works. Amongst the important publications may be mentioned the *Collected Works* of Sir R. G. Bhandarkar; a complete Word-Index to the *Vyākaranamahābhāṣya*; *History of Hindu Dharmaśāstra*, Vols. I and II, by P. V. Kane; Ghate's *Le Vedanta*; English Translation of the *Vyākaranamahābhāṣya* (in preparation); and Garbe's *Die Sāmkhya-Philosophie* (English Translation). The Institute has recently commenced the printing of the *Catalogus Catalogorum* of all Jain MSS. by Prof. H. D. Velankar. A complete list of the publications (over 80) can be had on application. The Institute has started another series called the *Bhandarkar Oriental Series* in which two works have been published, *viz.*, (1) *Patimokkha* and *Dhamma Sangani*, edited by Prof. R. D. Vadekar and Dr. P. V. Bapat.

(v) *The Journal Department* looks to the conduct of the *Annals* of the Institute which was started as a six-monthly publication in 1919, and is now published quarterly. Members obtain the *Annals* free of cost. To others the annual subscription is Rs. 10. A volume of index of authors and articles in Vols. I to XX of the *Annals* is in the press.

(vi) *The Library Department*.—The private collection of the late Sir R. G. Bhandarkar was transferred to the Institute in 1925, and consists of over 2,500 old and rare volumes on Indology. Books from this Library cannot be lent out, but are available to Members at the Institute for purposes of study and reference. The Institute also purchases and receives as presents new books regularly each year, as also a number of learned periodicals of India, Europe and America in exchange for the Institute's *Annals*. Books are issued to Members under certain conditions. For the use of Members a Reading Room of select

Oriental journals, Indian and Foreign, is being built up and brought up to date. The Institute has recently acquired by purchase and presentation about 2,000 MSS. which are being examined and catalogued.

(vii) *The Post-Graduate Instruction Department.*—The Institute has since 1927 opened a centre for Post-Graduate research work, where lectures are arranged for the benefit of M.A. students in “Sanskrit”, “Pāli”, “Ardhamāgadhī” and “Ancient Indian Culture”, for a fee of Rs. 33 per term. Qualified candidates are also trained for “thesis” work, in connection with which classes in German and French are also conducted. Two students are admitted free to these classes, one on the recommendation of the Chief of Ichalkaranji.

(viii) *Nizam's Guest House.*—In 1933 the Institute constructed a special well-equipped Guest House for the use of scholars. The entire cost of this Guest House was donated to the Institute by the Government of H.E.H. the Nizam of Hyderabad.

(ix) *Extension Lectures Series.*—For the benefit of the general public the Institute has been carrying on for the last two years a series of lectures pertaining to Indology and allied subjects.

3. The following persons are delivering lectures during the current year, for the benefit of students studying for the M.A. and Ph.D. degrees of the Bombay University.

Dr. V. S. Sukthankar, M.A., Ph.D.—“Archæology and Epigraphy”.

Prof. R. D. Vadekar, M.A.—“Pāli and Ardhamāgadhī”.

Dr. R. N. Dandekar, M.A., Ph.D.—“Ancient Indian Culture”.

4. *Honorary Secretary.*—Dr. R. N. Dandekar, M.A., Ph.D.

*Curator.*—P. K. Gode, M.A.

## II

### Bose Research Institute, Calcutta

The Bose Research Institute was founded by Sir J. C. Bose on November 30th, 1917, with the object of enabling the founder to carry on his fundamental investigations on the similarity of life phenomenon exhibited by plants and animals and also to train up a band of able and devoted workers who would continue this line of work after him. In the words of the Founder-Director, "The function of the Bose Institute differs from that of college teaching. Only by long and arduous personal training are the scholars made competent to undertake original investigation on intricate and hitherto unsuspected phenomena. Post-graduate scholars are carefully selected for receiving special training out of candidates who have taken degrees in science. They are admitted on condition that they devote themselves wholly to the prosecution of research, not for the satisfaction of personal ambition but in order to realize an inner call to devote one's whole life to win knowledge for its own sake and see Truth face to face." The scope of the investigations carried out in the Institute was subsequently widened, till at the time of Sir J. C. Bose's demise in November 1937, facilities for investigations in the following subjects were provided.

(i) Plant Physiology and Genetics, (ii) Bio- and Agricultural Chemistry, (iii) Zoology and Animal Physiology, (iv) Anthropology and (v) Theoretical and Experimental Physics.

The work of the Institute is carried out at the following places (i) in the main laboratories and workshops situated at 93/1, Upper Circular Road, Calcutta, (ii) in the experimental research station at Falta and (iii) in the Baccharaj Laboratory, Mayapuri, Darjeeling.

The Institute is registered under Act XXI of 1860; its properties are vested in a Governing Body, whose members are also its Trustees.

A Transaction of the Bose Research Institute is issued annually in which the results of investigations carried out in the Institute are published.

The research staff of the Institute consist of fellows, scholars, stipend holders and honorary workers. There are about twenty paid and six honorary workers.

Investigations are being carried out on the following subjects at present:

## I. Plant Physiology and Genetics—

- (a) Plant hormones and Auxins. Growth, tropic and automatic movement in plants. Root pressure and respiration.
- (b) Plant tissue culture.
- (c) Study of the ripening process in some Indian fruits.
- (d) Phasic development of tropical plants; temperature effect and photoperiodic effect.
- (e) Cytological and Cytogenetical studies.

## II. Bio- and Agricultural Chemistry—

- (a) Chemical investigations of active principles of Indian medicinal plants. Protein synthesis in plants. Role of organic acids in plant life.
- (b) Soil analysis; influence of manurial treatment on plant growth and products.
- (c) Chemical and physiological investigation of the food values of different kinds of cereals and pulses.

## III. Zoology and Animal Physiology—

- (a) Investigations on the habits of spiders and ants.
- (b) Study of the life-history of different varieties of fishes found in the rivers of Bengal.
- (c) A new line of investigation of Electro-encephalography has been started by Dr. B. K. Bagchi, Sir J. C. Bose Research Fellow in Biophysics of the Calcutta University.

## IV. Anthropology—

- (a) Blood-group investigations. Problems of human heredity.

## V. Physics—

- (a) Nuclear disintegration and artificial radio activity.
- (b) Cosmic rays.
- (c) Ultra-sonics.
- (d) Absorption spectra, specific heat and electrical conductivity of paramagnetic substances.
- (e) Theoretical investigations on astrophysical and nuclear physics problem.

Seminars and symposiums are held on different subjects.

## DIRECTOR

D. M. Bose, M.A., Ph.D., F.N.I.

## ASSISTANT DIRECTOR

Professor Nagendra Chandra Nag, M.A., F.I.C.

### **III**

## **Forest Research Institute and College, Dehra Dun**

**FOREST RESEARCH INSTITUTE, NEW FOREST, DEHRA DUN**  
**INDIAN FOREST COLLEGE, NEW FOREST, DEHRA DUN**  
**INDIAN FOREST RANGER COLLEGE, DEHRA DUN**

### **General**

A Forest School was founded at Dehra Dun in 1878. It became also a recognised centre of forest research in 1906, when a staff was appointed to investigate problems connected both with the growing of forests and with the utilisation of forest produce.

In 1914, the first Forest Research Institute was opened on the Chandbagh Estate, Dehra Dun. Within a very few years the war demand for forest produce emphasised the scope and need for extensive research far beyond that for which accommodation had been provided. Plans were therefore made for a new Forest Research Institute on the Kaulagarh (New Forest) estate a few miles out of Dehra Dun, and it was opened on the 7th November 1929. The old Institute was converted into the Indian Forest Service College, but with the closing of that College in 1932, the whole of the Chandbagh estate was given up, and with many additions and modifications now forms the Doon School.

### **Forest Research Institute**

The main building of the Forest Research Institute at New Forest is 350 yards long and covers an area of 7 acres. It is fully equipped with laboratories, museums, a herbarium, and up-to-date libraries. There are also separate buildings housing chemical laboratories, an insectary, a saw-mill, a pulp and paper plant, and well-equipped wood working and timber preservation and testing sections. The surrounding grounds, which cover 1,150 acres, include a botanical garden, some 250 acres of demonstration plantations, experimental gardens and nurseries.

The activities of the Forest Research Institute are mainly directed towards research, the service of information and instruction. The work is divided among six branches, dealing with Silviculture, Botany, Entomology, Economic Forestry and Utilisation, Chemistry and Timber Development. No regular

courses are held, but limited facilities exist for training in research methods and for the conduct of research by private individuals.

### **Forest Education**

Forest education in India first started with the founding in 1878 of the Forest School at Dehra Dun, for the training of Forest Rangers. The school came directly under the Government of India in 1884 and, as the Imperial Forest College, trained Rangers at first for all the provinces. In 1912, the Madras Forest College was opened at Coimbatore, serving Madras, Bombay, the Central Provinces, Bihar and Orissa, and the South and Central Indian States, the Imperial Forest College at Dehra Dun serving the rest of India. The Madras Forest College, however, has now been closed with effect from the 1st July 1939, and Ranger students from all parts of India except Bombay Province, are again being trained at Dehra Dun. The College at Dehra Dun has now been renamed the Indian Forest Ranger College, to distinguish it from the new Indian Forest College for the training of officers for the Superior Forest Services, opened in 1938.

In 1912 a separate course was started for the Provincial Forest Services as then constituted. This course was closed in 1928 with the cessation of direct recruitment to the old Provincial Services. From the 1st November 1926, the training of Indian probationers for the Indian Forest Service was commenced, a separate Indian Forest Service College being established in the old Forest Research Institute at Chandbagh, Dehra Dun. This College, however, had to be closed in November 1932, owing to the cessation of recruitment to the Indian (Imperial) Forest Service.

Following the transfer of "Forests" to popular control, under the reformed constitution, the old Indian Forest Service is slowly disappearing, and in its place each province is building up its own Superior Forest Service. For the training of officers for these new Provincial Forest Services, and for the Forest Services of the Indian States, the Indian Forest College has been established at New Forest in conjunction with the Forest Research Institute and was opened in May 1938.

### **Indian Forest College**

The Indian Forest College is housed in the Forest Research Institute building at New Forest and is well equipped with lecture and common rooms, and biological and chemical laboratories. The museums, herbarium, laboratories and workshops and the Central Library of the Forest Research

Institute form an important part of the College, in so far as they are largely used for educational purposes by the research officers and College staff. Hostel accommodation and a common mess are provided. A large playing field with a pavilion provides football and hockey grounds, a cricket pitch and tennis courts.

The staff of the College consists nominally of two—the Principal and Professor of Forestry, and the Lecturer in Engineering and Surveying, under the general administrative control of the President, Forest Research Institute and Colleges. But in addition, the Research Officers of all the branches of the Forest Research Institute act as lecturers in their respective subjects.

The course covers two years, and among other conditions an honours science degree not lower than Second Class, is required as a qualification for entry. Only those students are accepted who are deputed by their Provinces or States, or who have a guarantee of employment on their successfully completing the course. The present class (April 1940–March 1942) consists of 20 students.

The fees as at present fixed are Rs. 3,500 per year and the total cost of the course is about Rs. 10,550 as follows:—

	Rs.
Fees at Rs. 3,500 per year .. .. .	7,000
Stipend at Rs. 100 p.m. (to cover living expenses*) ..	2,400
Travelling expenses for field training and tours ..	800
Camp outfit, etc. .. .. .	350
<b>TOTAL ..</b>	<b>10,550</b>

The next course is due to commence in April 1942.

### Indian Forest Ranger College

The Indian Forest Ranger College (formerly known as the Forest School and the Imperial Forest College) is housed in the original College buildings at Dehra Dun. These comprise a college building, with lecture and common rooms, drawing and engineering halls, biological laboratory and museum and hostels for the students. The surrounding grounds, covering about four acres, constitute a small arboretum and include tennis courts, while in addition there is a good playing field adjacent.

The staff of the College consists of the Director, the Assistant Instructor and the Lecturer in Engineering (who is shared with the Indian Forest College). Several of the Research

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\* (One Province gives a stipend of Rs. 150 p.m. to its students.)

Officers of the Forest Research Institute also lecture in their special subjects.

The course covers two years. Among other conditions, the minimum qualification for admission to the College is a pass in the Intermediate examination of an Indian University or its equivalent, but the usual standard is higher. Only those students are accepted who are deputed by their Provinces or States, or who have a guarantee of employment on their successfully completing the course. The present class (1941-43) consists of 34 students.

The fees as at present fixed are Rs. 1,500 per year, and the total cost of the course is about Rs. 4,950 as follows:—

	Rs.
Fees at Rs. 1,500 per year .. ..	3,000
Stipend at Rs. 50 per month (to cover living expenses) .. ..	1,200
Travelling expenses for field training and tours .. ..	400
Camp outfit, uniforms, etc., .. ..	350
<b>TOTAL</b> .. ..	<b>4,950</b>

Admissions are made annually. The next course is due to commence in April 1942.

### Enquiries

All enquiries concerning the Forest Research Institute, the Indian Forest College, or the Indian Forest Ranger College, should be addressed to the President, Forest Research Institute and Colleges, New Forest P.O. (Dehra Dun), United Provinces.

### Staff

(On 31st July 1941)

S. H. Howard, Esq., B.A., I.F.S., Inspector-General of Forests and President, Forest Research Institute and Colleges.

G. S. Singh, Esq., M.A. (Oxon.), B.Sc. (Hons.), I.F.S., Personal Assistant to the President, Forest Research Institute and Colleges.

### *Forest Research Institute—Heads of Branches.—*

A. I. Griffith, Esq., M.A. (Oxon.), I.F.S., Silviculturist.

Dr. N. L. Bor, M.A., D.Sc., I.F.S., Forest Botanist.

Dr. C. F. C. Beeson, C.I.E., M.A., D.Sc., F.E.S., F.N.I.S., I.F.S., Forest Entomologist.



H. Trotter, Esq., I.F.S., Utilisation Officer.

Dr. S. Krishna, Ph.D., D.Sc. (Lond.), F.I.C., Bio-Chemist.

J. L. Harrison, Esq., I.F.S., Timber Development Officer.

*Indian Forest College.—*

E. C. Mobbs, Esq., M.A., B.Sc., I.F.S., Principal and Professor of Forestry.

J. L. Harrison, Esq., I.F.S., Lecturer in Surveying and Engineering.

*Indian Forest Ranger College.—*

C. R. Ranganathan, Esq., M.A., I.F.S., Director.

U. S. Madan, Esq., B.Sc., P.F.S., Assistant Instructor.

J. L. Harrison, Esq., I.F.S., Lecturer in Engineering.

## IV

### Harcourt Butler Technological Institute, United Provinces, Cawnpore

The proposal to establish an Institute for advanced technical training and research in the United Provinces was made first at the Nainital Industrial Conference in 1907. Active development of the Institute dates from 1921. The foundation of the main building of the Institute was laid in that year by the then Governor, Sir Harcourt Butler, after whom the Institute is named. The aims and objects of the Institute are (a) to be a centre of technological research with a view to promoting the industrial development of the United Provinces and of the country, and (b) to be a recruiting centre for technologists qualified to occupy positions on the supervisory staffs of selected industries. The type of students which it is desired to admit to the Institute includes those having a special aptitude for practical and commercial activity, who have some definite prospects of employment in industry or who have sufficient financial resources to be able themselves to undertake new industrial ventures even if only on a small scale.

There are two separate sections in the Institute—General Research Section and Oil Section. In the General Research Section there is no regular teaching but advanced research workers who possess a degree in Science or Agriculture are admitted for a period of two years and receive training in methods of industrial research. Students who satisfactorily complete the two years' course in the General Research Section are awarded diplomas and are entitled to call themselves Associates of the Harcourt Butler Technological Institute (A.H.B.T.I.).

In the Oil Section, the students are trained specially for positions in oil-seed crushing mills, oil refineries, soap works and paint and varnish works. The Oil Technologists' course which leads to a diploma of the Institute (A.H.B.T.I.) is of two years' duration and the minimum qualification for admission to the course is B.Sc. in Science or Agriculture. Besides, there are short courses also of six to eight months' duration in (i) oil milling, (ii) soap making, and (iii) the preparation of oils and paints and varnishes. The minimum qualification for admission to each of these short courses is the same as for the Oil Technology course. The department is equipped with an oil mill, soap, paints and varnish plants.

*Equipment (General Research Section).*—There is an up-to-date laboratory for applied chemical research. There are also semi-large-scale demonstration and experimental plants including vacuum evaporators, driers, steam-jacketted pans, drug extractor by solvents, autoclave, rectifying still, filter presses, pulveriser,

ball-mills, disintegrator, centrifuge, furnaces and pumps of various types. A laboratory workshop fitted with electrically driven lathe, drill, polishing wheels, etc., is also available for preparing experimental apparatus. There is also a fair sized still for the steam distillation of essential oils.

**Oil Section.**—The laboratory equipment includes a collection of up-to-date apparatus for testing oils, fats, waxes, soaps, paints and varnishes and other allied products for the training of students and research. There is a model oil mill equipped with expellers, hydraulic presses and cleaning and crushing machinery with a crushing capacity of 100–200 maunds of seed per day. There is also complete equipment for the delinting and crushing of cotton seed oil. Different types of Ghannies driven by bullock and mechanical power, have been installed. A small but complete experimental plant for the neutralization, bleaching and deodorization of oils is in the course of erection. The section has an up-to-date soap-boiling plant of  $2\frac{1}{2}$  tons capacity and a soap-milling plant of 1 cwt. daily capacity. There are also equipments for training students in the manufacture of boiled oils, varnishes and paints on a plant of 2 cwt. capacity consisting of boiling tanks, edge running, roller mills, cone mills, microtwin rolls and mixing machines.

The basic training given at the Institute touches upon both engineering and chemistry and is framed to give an adequate appreciation of the technical features of any industry into which a student may enter. So far as the resources of the Institute permit, the outgoing students are familiar with the ordinary plant to be found in the factories in which they hope to work and have sufficient practical knowledge of engineering to be able with a little experience to handle working plant and to take charge of factory operations. Visits to works supplement the training given at the Institute. The Institute also possesses an extensive and up-to-date library. In the administration of the Institute, close contact with the requirements of industry is maintained by the Advisory Committee and the Board of Studies and Research.

A few stipends and scholarships are also awarded on the results of the Institute examinations.

Students are generally required to live in the hostel of the Institute. A charge of Rs. 3 per month is payable for furnished quarters and the total cost of living is about Rs. 40 per month. No tuition fee is charged from the students who are *bona-fide* residents of U.P. Non-U.P. students are admitted only on payment of Rs. 500 per annum for the regular courses, *i.e.*, the major of two years' duration, and Rs. 25 per month for the minor courses. The applications for admission in the form to be obtained from the Principal should reach him complete in every respect before June 20th.

## V

### Imperial Agricultural Research Institute, New Delhi

The Imperial Agricultural Research Institute owes its inception to the generosity of Mr. Henry Phipps, an American philanthropist who, in 1903, placed at the disposal of Lord Curzon, the then Viceroy and Governor-General of India, a donation of £20,000, which he afterwards raised to £30,000 to be devoted to some object of public utility in India, preferably in the direction of scientific research. Part of this donation was devoted to the construction of a Pasteur Institute at Coonoor in South India, and it was decided that the balance should be utilised in erecting a laboratory for agricultural research which would form a centre of economic science dealing with the development of agriculture on which the people of India mainly depend. This conception was subsequently enlarged, and a college and research institute, to which a farm of 830 acres was attached for purposes of experimental cultivation and demonstration, was established at Pusa under the control of the Central Government.

Owing to the total destruction of the Phipps Laboratory and many other buildings in the great earthquake of January 1934, the Institute has been rebuilt on a new site near Delhi. The total area of the Institute consists of about 800 acres, of which about 275 acres are under buildings and pasture and the rest is agricultural land which has been laid out into fields for experiment and research. The transfer of the Institute to the new site was completed by the end of 1936.

The Institute is fully equipped with laboratories, a museum, herbaria, and an up-to-date scientific library. The activities of the Institute are mainly directed towards research, experiment and education.

As regards research, the Institute deals, as a rule, with problems of general or all-India importance, or with problems which cannot be studied properly or conveniently by provincial departments. Facilities are afforded to a limited number of research workers competent to carry out definite pieces of research within the purview of the activities of the Institute.

On the educational side, it serves the purpose of a higher teaching institution, providing post-graduate courses for selected graduates of provincial agricultural colleges and distinguished science graduates of Indian Universities. Specialised courses were started in November 1923 with the object of training students in methods of research and fitting them for appointment to the superior posts in the service. A tuition fee of Rs. 25 per mensem is levied from students, which includes.

residential accommodation in the Hostel, but a separate charge of Rs. 5 per mensem has to be paid for consumption of electrical energy and water. Students who successfully complete the two-year course are awarded the Diploma of the Associateship of the Imperial Agricultural Research Institute. The Institute has been recognized by the several Universities in India for presentation of theses for higher research degrees.

The Institute performs another very important function in so far as it supplies information and advice on agricultural topics to all who care to ask for it.

The Institute is under the administrative control of the Director, Imperial Agricultural Research Institute, New Delhi, and its staff is divided into five sections which deal with agricultural, botanical, chemical, mycological and entomological problems.

The following institutions situated outside New Delhi are also under the control of the Institute:—

1. Agricultural Sub-Station, Karnal.
2. Imperial Sugarcane Breeding Station, Coimbatore.
3. Botanical Sub-Station, Pusa.
4. Sugarcane Sub-Station, Karnal.
5. Potato and Wheat Breeding Station, Simla.
6. Tobacco Research Station, Guntur.

The last three are financed by the Imperial Council of Agricultural Research.

#### STAFF

Rao Bahadur B. Viswa Nath, F.I.C., Director, Imperial Agricultural Research Institute, and Imperial Agricultural Chemist.

Rao Bahadur Sir T. S. Venkataraman, C.I.E., B.A., Sugarcane Expert, Sugarcane Station, Coimbatore.

Dr. Hem Singh Pruthi, M.Sc. (Pb.), Ph.D. (Cantab.), Imperial Entomologist.

Dr. B. P. Pal, M.Sc., Ph.D. (Cantab.), F.L.S., Imperial Economic Botanist.

Dr. G. Watts Padwick, M.Sc., Ph.D., D.I.C., Imperial Mycologist.

Mr. C. H. Parr, B.Sc. (Agri.), Imperial Agriculturist.

Mr. P. V. Isaac, B.A., D.I.C., M.Sc., F.E.S., Second Entomologist (Dipterist).

Mr. N. L. Dutt, M.Sc., Second Cane-Breeding Officer, Coimbatore.

Dr. S. Ramanujam, Ph.D., Second Economic Botanist.

Mr. R. D. Bose, B.Sc., Agricultural Experimentalist

(Temporary).

## VI

**Indian Institute of Science, Bangalore**

## VISITOR

H. E. the Viceroy of India.

## DIRECTOR

Dr. J. C. Ghosh, D.Sc., F.N.I.

## REGISTRAR

Mr. R. P. Bahadur, M.Sc.

### TEACHING STAFF

Physics .. *Head of Dept.:* Sir C. V. Raman, kt.,  
F.R.S., N.I.  
*Assistant:* Dr. C. S. Venkateswaran,  
M.A., D.Sc., F.Inst.P.

## Department of Pure and Applied Chemistry:

General Chemistry      *In Charge:* Director.  
Section

*Assistant Professors:* Dr. S. K. Kulkarni Jatkar, D.Sc., F.I.I.C., F.I.C., M.Sc. (Bombay); Dr. K. R. Krishnaswami, B.A. (Madras), D.Sc. (Lond.), F.I.C.

Organic Chemistry Section      Professor: Dr. P. C. Guha, D.Sc.  
(Calcutta).

**Assistants:** Mr. P. Ramaswami Ayyar, M.A. (Madras); Mr. B. Sanjiva Rao, B.A. (Madras), M.Sc.; Dr. M. A. Govinda Rau, M.A., Ph.D.

Bio-Chemistry .. Professor: Dr. V. Subrahmanyam, D.Sc.  
(Lond.), B.A. (Madras), F.I.C.  
Assistants: Mr. B. N. Banerji, M.Sc.  
(Cal.); Mr. M. Sreenivasaya, B.A.  
(Madras), F.I.I.Sc.; Mr. B. N. Sastri,  
M.Sc., A.I.C.

**Electrical Technology**    *Professor:* Mr. Kenneth Aston, B.Sc.  
(Tech.), M.Sc., M.I.E.E.

*Asst. Professor of Electrical Communication Engineering:* Mr. K. Sreenivasan, B.Sc. (Mysore), A.M.I.E.E., Mem.I.R.E.

*Lecturer in Electrical Engineering:* Dr. P. K. Kelkar, B.Sc., Ph.D. (Liverpool).

*Assistants:* Mr. N. R. Junnarkar, B.E.; Mr. D. J. Badkas, M.Sc.

Central Workshop .. *Lecturer in Mechanical Engineering:* Mr. K. B. Krishna Rau, B.A., B.E., A.M.I.E. (Ind.).

French .. *Lecturer:* Dr. G. T. Kale, D.Sc.

German . . . *Part-time Teacher:* Dr. (Mrs.) H. Kale, Ph.D.

The Indian Institute of Science owes its origin to the munificence and imagination of the late Mr. J. N. Tata, whose plan for establishing a Research Institute was brought to fruition after his death by the far-sighted generosity of his two sons, the late Sir Dorabji Tata and the late Sir Ratanji Tata. In giving effect to their father's wishes these benefactors were supported by the Government of India and the Government of H.H. the Maharaja of Mysore.

The Institute began work in July 1911, and its laboratories provide facilities for post-graduate work in five main branches of Science, namely, Physics, General Chemistry, Organic Chemistry, Bio-Chemistry and Electrical Technology. The departments are very well equipped, and there is an admirable library which embraces the current journals relating to those branches and comprising upwards of 30,000 volumes. Training in French and German is given by the Librarian and the part-time teacher respectively. The students reside in a hostel with which is associated a Gymkhana Club presented by the late Sir D. J. Tata. A tuition fee of Rs. 8 per month is charged only from students undergoing the Certificate Courses. A rental of Rs. 10 per month is charged for room, lighting, service, etc., the students defraying their own messing charges which average about Rs. 30 per month. The Council awards a number of research scholarships and research stipends of Rs. 60 p.m. and Rs. 40 p.m. respectively, on the recommendation of the Senate based on the merits of the students after several months' training at the Institute.

The academic year is divided into three terms and begins in July. Students usually remain at the Institute during three

years. The Associateship is awarded on the recommendation of the Senate after five terms devoted entirely to research. Certificates are granted to students who satisfactorily complete approved courses of study. The scientific work of the Institute is recorded in the *Journal of the Indian Institute of Science* of which about 15 parts are issued annually.

*Postal Address.*—Indian Institute of Science, Malleswaram, Bangalore. *Telegrams*:— “Science”, Bangalore.

*The Year 1940–41.*—Number of students and other workers, 212; of these 67 held Institute Scholarships and Studentships and a few others were maintained by the Government of Madras, Bombay and Central Provinces, and by Sir Dorab Tata and Lady Tata Memorial Trusts. Forty-two students passed out to appointments.

*Total Expenditure.*—Rs. 5,62,838.



A new department was opened in the year 1939. Shastries are taken up for the study of Western Philosophy. A Professor has been appointed to lecture on the subject in Hindi. Each Shastri receives a scholarship of Rs. 30 only per month. There are only five such scholarships available.

The permanent staff of the Institute consists of the following:—

1. Prof. G. R. Malkani, M.A., Director.
2. Prof. R. Das, M.A. (Phil.), M.A. (Sanskrit), Ph.D. (Cal.).
3. Prof. M. R. Oak, M.A.
4. Atmaram Jere Shastri.

The subjects in which facilities for study and research are provided include Metaphysics, Logic, Indian Philosophy, Ethics and Philosophy of Religion.

## VIII

### Indian School of Mines, Dhanbad

The Indian School of Mines was opened by the Government of India in 1926 and was established to provide high grade instruction in Mining Engineering and in Geology along the lines of the courses of instruction given in the Royal School of Mines, London, and similar Mining Colleges in Great Britain. The School is situated at Dhanbad, the E.I.Ry. Junction for the Jharia Coalfield, a site which gives it a unique position specially suiting it for the purposes for which it was instituted. It is within easy reach of the Coalfields of Raniganj, Giridih, Bokaro and Jharia which are together responsible for 95 per cent. of the output of coal in British India. It is also reasonably near the Mica fields of Hazaribagh, Gaya and Monghyr and the Iron, Copper and Chromite Mines of Singhbhum, all of which are in the Provinces of Bihar. The fact that these Provinces are probably richest in mineral deposits in India adds to the value of the position in connection with the courses of study in Geology.

Admission is competitive, there being an Entrance Examination held early in July each year. Provided a sufficient number of candidates come forward the Entrance Examination is held at various centres throughout India. Application for admission must be made early, preferably in May and in any case not later than the 15th June, on the appropriate forms obtainable from the Principal. Permission to sit for the Entrance Examination is granted only to candidates possessing certain educational qualifications, for example, I.Sc. or I.A. of an Indian University. The subjects taken in the Intermediate Examination must have included English, Mathematics and either Physics or Chemistry. Certain equivalent examinations are recognized (*vide* Prospectus). No candidate is admitted if he is over 22 years of age on 1st January of the same year.

The following courses of study are provided:—

- (a) Three Year Course leading to Certificate in Coal Mining.
- (b) Three Year Course leading to Certificate in Metal Mining.
- (c) Three Year Course leading to Certificate in Geology.
- (d) Four Year Course leading to Diploma of Associateship in Mining-Engineering.
- (e) Four Year Course leading to Diploma of Associateship in Geology.

It is highly desirable for all candidates to obtain one year's practical experience in mining prior to joining. Candidates must, however, make their own arrangements for this. The Diploma of Associateship entitles the possessor to indicate it by the letters "A.I.S.M.". There is a Hostel attached and students arrange their own messes under the guidance of the Hostel Superintendent.

### Fees, etc.

	Rs.	A.
Entrance Examination Fee .. ..	10	0
Admission Fee .. ..	10	0
Caution Money Deposit (the balance of this is return- able to students) .. ..	50	0
Tuition Fees—		
First Year—(in 2 equal instalments) ..	120	0
Second Year—(in 2 equal instalments) ..	120	0
Third Year (in 2 equal instalments) ..	180	0
Fourth Year—(in 2 equal instalments) ..	180	0

### Monthly Charges—

Consolidated Hostel charges at present ..	8	4
Examination Fee for the Certificate at the end of the Third Year .. ..	25	0
Examination Fee for the Diploma at the end of the Fourth Year .. ..	40	0

The session begins on the 1st of November each year and lasts until 31st July in the following year with short breaks at Christmas and at Easter. During the long vacation each student is required to obtain practical experience in a mine or (if taking the Geology Course) in the field, for at least 2 months.

### Scholarships

The Government of India, and Provincial Governments award scholarships of values varying from Rs. 30 per month to Rs. 75 per month. In most instances these are awarded on the results of the Entrance Examination.

### Department of Mines and Other External Examinations

Students who obtain the Certificate in Coal Mining or the Diploma of Associateship in Mining Engineering obtain concessions in respect of the period of practical experience in a local mine required from candidates for the Department of Mines Examinations. The period of practical experience required is reduced by one year in the case of candidates for the Second

Class Mine Manager's Certificate and by two years in the case of candidates for the Sirdar's Certificates and candidates for the First Class Mine Manager's Certificate. A similar reduction of 18 months is granted to students possessing the Certificate in Coal Mining or Metal Mining or the Diploma in Mining Engineering in respect of the Examination for the Certificate of Competency as Mine Surveyors.

The Diploma of Associateship in Mining Engineering entitles the holder to a similar exemption, *viz.*, of two years, in respect of the Examinations for First Class and Second Class Certificates of Competency under the British Coal Mines Act, 1911. Further, the School has been recognized by the University of London for the purpose of its B.Sc. Degree in Engineering (Mining). Arrangements will shortly be completed for holding certain of these Degree Examinations at the School.

### Governing Body

There is a Governing Body on which the Director of the Geological Survey of India, the Chief Inspector of Mines in India, representatives of the Governments of India, Bengal and Bihar and of the Indian Mining Association and the Indian Mining Federation and the Principal serve. The Director of the Geological Survey of India is *ex-officio* President.

All intending candidates for admission are strongly advised to obtain further detailed information from the Principal, or, preferably, to purchase a copy of the Prospectus. Copies of the Prospectus are obtainable from the Manager of Publications, Civil Lines, Delhi, or from the Principal. The cost (only a few annas) varies from year to year.

### Staff

#### PRINCIPAL

Charles Forrester, F.I.C., Ph.D. (Edin.), F.R.S.E., A.H.W.C.,  
F.Inst.F., A.M.I.Chem.E.

#### DEPARTMENT OF MINING

S. K. Bose, B.Sc. (Cal.), A.R.S.M., B.Sc. (Hons.) Mining  
(Lond.), A.Inst.M.M., Professor of Mining and Surveying.

R. P. Sinha, B.Sc., Min. & Met. (Edin.), Ph.D. (Edin.), A.H.W.C.,  
First Class Colliery Manager's Certificate, Professor of  
Mining Engineering.

(Vacant) Instructor in Mining, Surveying and Drawing.

K. B. Swamy, B.Sc. (Hons.) (Cal.), A.I.S.M. (Mining Eng.  
and Geology), Lecturer-Demonstrator, Surveying and  
Drawing.

- N. S. Claire, A.I.S.M., Lecturer-Demonstrator in Mining  
(Temporary).  
B. Sen, Laboratory Assistant.

#### DEPARTMENT OF GEOLOGY

- S. K. Roy, Ph.D. (Zurich), B.Sc. (Cal.), F.N.I., Professor of  
Geology.  
N. L. Sharma, M.Sc. (B.H.U. & Liv'pl.), F.A.Sc., Lecturer-  
Demonstrator.  
P. S. Rao, M.A., Offg. Laboratory Assistant.

#### DEPARTMENT OF ENGINEERING

- Forbes W. Sharples, B.Sc. (Eng.) (Lond.), Ph.D. (Lond.),  
F.R.S.E., M.I.E.E., Professor of Mechanical and Electrical  
Engineering.  
N. N. Sen, L.Mech.E. (Hons.), Lecturer-Demonstrator, Mechanical  
Engineering.  
G. K. D. Upadhyaya, Associate Heriot Watt College (Edin.),  
Lecturer-Demonstrator, Electrical Engineering.  
V. H. G. Blinkworth, Foreman-Instructor.  
Ahibhusan Mukherjee, Assistant to Foreman-Instructor.

#### DEPARTMENT OF CHEMISTRY AND ASSAYING

- Charles Forrester, F.I.C., Ph.D. (Edin.), F.R.S.E., A.H.W.C.,  
F.Inst.F., A.M.I.Chem.E., Professor of Chemistry and Assaying.  
B. B. Niyogi, B.Sc., A.I.C., Lecturer-Demonstrator.  
J. N. Majumdar, M.Sc., Laboratory Assistant.

#### DEPARTMENT OF PHYSICS

- B. B. Banerji, M.Sc., Ph.D. (Lond.), A.Inst.P., F.P.S., Lecturer  
in Physics and Mathematics.  
J. Dhar, M.Sc.  
Nurul Huda, M.Sc.

#### DEPARTMENT OF ENGLISH, GERMAN AND FRENCH

- Lemuel Sadoc, M.A., Ph.D. (Frankfort), Lecturer in English,  
German and French.  
Dr. Sadoc, Librarian.  
Alakananda Baksi, M.B., Lecturer in First Aid to the Injured  
(Visiting Medical Officer).  
All communications should be addressed to—  
"The Principal,  
Indian School of Mines, Dhanbad, E.I.Ry."  
The telegraphic address of the Principal is—  
"Scolomin," Dhanbad.

## IX

### Serampore College

Serampore College, standing in a large compound on the banks of the river Hughli opposite Barrackpore Park, was the first institution in India to receive the rights and privileges of a University. Founded in 1818 by William Carey, Joshua Marshman and William Ward "for the instruction of Asiatic Christian and other youth in Eastern Literature and European Science", it was in 1827 incorporated by Royal Charter granted by His Danish Majesty, King Frederick VI, to whom the town of Serampore at that time belonged, and in 1845 it was confirmed by the British Government in its chartered rights and immunities on the transfer, by the Treaty of Purchase, of the Settlement of Serampore from Denmark to Great Britain. In 1856 the College was entrusted to the Baptist Missionary Society to become part of the Society's educational activities; and the following year it was decided, instead of utilizing its own charter, to affiliate the College to the newly-formed Calcutta University, and for 25 years students were sent up for the Calcutta Examinations. For another 25 years the University classes were suspended, but in 1910 the College was re-organized under its own Council on the lines laid down by the founders, by the appointment of a qualified Theological Staff, the opening of Theological classes on an interdenominational basis, and the renewal of affiliation to Calcutta University. In 1915 the College charter was utilized for the first time for the conferring of degrees in Divinity, and in 1918 the Serampore College Act was passed by the Bengal Legislative Council, by which the College Council was enlarged and a new Senate was constituted on an interdenominational basis. Accordingly the College is now affiliated to Calcutta University for Arts and Science while in Theology it confers its own diplomas and degrees.

The final authority in all matters relating to the College is the *College Council*, an interdenominational body of sixteen members with its headquarters in London.

Master of the College—Mr. C. T. Le Quesne, K.C.

Secretary of the Council—Rev. C. E. Wilson, B.A.

For the internal management and good government of the College authority is delegated to the *College Faculty*, consisting of the Principal and certain Professors in residence. For the framing of courses of study, holding of examinations, etc., in Theology, authority is delegated to a Senate resident in India, at present consisting of the following:

Convener and President	..	Rev. G. H. C. Angus, M.A., B.D. (Principal).
Registrar	..	Rev. C. E. Abraham, M.A., B.D.
Anglican	..	Rev. C. K. Jacob, B.A.; Rev. J. R. Peacey, M.A.; Rev. T. Sittler, M.A., B.D.
Baptist	..	Rev. V. H. Sword, M.A., B.D., Th.D.; Rev. M. Theophilus, B.D.; and Rev. D. S. Wells, A.C.A.
Congregational	..	Rev. S. K. Chatterji, M.A.; and Rev. M. H. Harrison, M.A., Ph.D.
Lutheran	..	R. B. Manikam, Esq., M.A., B.D., Ph.D.; Rev. H. H. Sipes, M.A., Ph.D.; and Rt. Rev. J. Sandegren, D.D.
Methodist	..	Rev. O. I. Davis, M.A., S.T.B.; and Rev. J. S. M. Hooper, M.A.
Presbyterian	..	Rev. A. Cameron, M.A., B.D.; Rev. S. Evans, B.A.; and Rev. J. F. McFadyen, M.A., D.D.
Syrian	..	Rt. Rev. Mar G. Philoxenos, M.A., B.D.

#### ARTS AND SCIENCE DEPARTMENT

The College is affiliated to Calcutta University in the following Branches:—

B.A.	..	English (Pass and Hons.), Bengali, Philosophy (Pass and Hons.), Sanskrit (Pass and Hons.), History, Economics, Mathematics (Pass and Hons.), Hebrew and Syriac.
I.A.	..	English, Bengali, History, Logic, Civics, Sanskrit, Hebrew, Syriac, Mathematics, Chemistry and Physics.
I.Sc.	..	English, Bengali, Mathematics, Physics and Chemistry.

#### THEOLOGICAL DEPARTMENT

A Matriculation examination is held in alternate years. The two main courses of study are those leading to the Diploma of Licentiate in Theology (L.Th.), and to the Degree of Bachelor of Divinity (B.D.). Examinations in these courses and for B.D. Honours are held annually in April.

*Syllabus of Studies—*

(a) *Matriculation :—*

- (i) *Compulsory Branches*—English, Scripture Knowledge, General Knowledge, History and Geography, Vernacular Essay and Translation.
- (ii) *Optional Branches*—One of the following: Elementary Science, Mathematics, New Testament Greek, Sanskrit, Hebrew and Latin.

(b) *L.TII. I (Anglo-Vernacular Course) (Open to internal students only).*

*Compulsory*

*Optional*

Old Testament.	New Testament Greek.
New Testament.	Vernacular Studies.
English Composition.	Books from Vernacular Bible.
Vernacular Composition.	
History of Christianity in India.	
Biblical History.	

(c) *L.TII. II & III (Anglo-Vernacular Course) (Open to internal students only).*

*Compulsory*

*Optional*

Old Testament.	History of Religions.
New Testament.	Vernacular Studies.
Christian Theology.	Pastoralia.
Church History.	Rural Reconstruction.
History of Religions.	New Testament Greek.
Essays.	Liturgiology.
	Religious Education.

(d) *Preliminary Course (Pass and Distinction).*

Candidates who pass with Distinction are eligible for admission to the B.D. Course. Other candidates who pass may proceed to qualify for the L.TII. Diploma (English Course).

*Subjects to be studied :—*

Old Testament.	English (Text & Composition).
New Testament.	Vernacular (Text & Composition).
	Psychology.



and one of the following:—

Outline of World History.  
 Classical Language (other than  
 N.T. Greek).  
 Elements of Science.  
 N.T. Greek.

(c) L.T.H. (English Course) :—

The curriculum of studies in the L.T.H. (English) Course is divided into two parts:

Part I—In this the subjects and examination papers are the same as for the Preliminary Course [see (d) above].

Part II—is a modified form of the curriculum of studies for the B.D. degree.

1. The subjects in Part II of the Course are divided into two groups, A and B.

2. The total number of papers required under Part II is twelve (thirteen in the case of those who take the English Course in N.T.), *viz.*, ten papers in Group A and two (or three as the case may be) papers chosen from Group B.

#### GROUP A

<i>Subject</i>	<i>Papers</i>
1. Old Testament (Text and Introduction)	.. 2
2. New Testament (Greek course)*	.. 4 }
New Testament (English course)*	.. 4 }
3. Christian Theology (Outlines)	.. 2
4. Church History	.. 1
5. Vernacular Essay	.. 1

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TOTAL .. 10

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\* Those who take the New Testament (English Course) are required to take an extra paper from Group B.

#### GROUP B

<i>Subject</i>	<i>Papers</i>
1. History of Religions	.. 1 or 2
2. Church History	.. 1
(in addition to that required under Group A)	
3. Classical Language	.. 2 or 3
4. Liturgiology	.. 1 or 2
5. Pastoralia (open to Internal Students only)	1
6. Vernacular Studies	.. 2 or 3

## (f) B.D. Course.

The subjects in the Curriculum for the B.D. degree are divided into four groups A, B, C and D.

The total number of papers required for the degree is twenty-seven.

Candidates are required to pass in all the Branches in Group A—15 papers (13 papers for those who take Old Testament with Hebrew) and Group B—3 papers, 18 papers in all (16 papers for those who take Old Testament with Hebrew), and in at least 5 (7 for those who take Hebrew) chosen from Group C. The remaining papers may be chosen, from either Group C or Group D.

Provided always that not less than one and not more than four Branches are selected from Branches VII to XV (Branches VII to XI belong to Group C and XII to XV to Group D) and that the maximum number of papers prescribed in the syllabus is taken in at least one Branch chosen from Branches I to V and VII and VIII.

## GROUP A

I.	Old Testament (without Hebrew)	..	5†
II.	New Testament .. ..	..	6
III.	Christian Theology .. ..	..	2
IV.	History of Religions .. ..	..	1
V.	Church History .. ..	..	1
TOTAL			15

† 3 for those who take Hebrew.

## GROUP B

VI.	(a) Vernacular Essay .. ..	..	1
	(b) Vernacular Translation .. ..	..	1
	(c) English Thesis .. ..	..	1
TOTAL			3

## GROUP C

I.	(a) Old Testament (without Hebrew)	..	1†
	(b) Old Testament (with Hebrew)	..	4†
II.	New Testament .. ..	..	1†
III.	Christian Theology .. ..	1 or 2†	
IV.	History of Religions .. ..	1 or 2†	
V.	Church History .. ..	1 or 2†	

† In addition to those required under Group A.

VII.	Philosophy of Religion	..	2 or 3
VIII.	Classical Language	..	2 or 3
IX.	Moral Philosophy	..	1 or 2
X.	Vernacular Studies	..	2 or 3
XI.	Psychology of Religion	..	.. 1

## GROUP D

XII.	Pastoralia	..	1 or 2
XIII.	Religious Education	..	1 or 2
XIV.	Liturgiology	..	1 or 2
XV.	Rural Church and India Culture		1 or 2

Candidates may register for the above courses as Internal students at Serampore or at one of the affiliated Colleges. Regulations for External students may be obtained on application from the Registrar. The following Colleges are affiliated to Serampore.

## FOR THE B.D. COURSE

United Theological College, Bangalore	<i>Principal:</i> Rev. M. H. Harrison, S.T.M., Ph.D.
Leonard Theological College, Jubbulpore	<i>Principal:</i> Rev. O. L. Davis, M.A., S.T.B.

## FOR THE L.T.H. COURSE

Mar Thoma Theological Seminary, Kottayam	<i>Principal:</i> K. K. Kuruvilla, M.A., B.D.
Diocesan Theological and Training Institution, Kottayam	<i>Principal:</i> Rev. M. J. Chandy, B.A.
Union School of Divinity, Trivandrum	<i>Principal:</i> Rev. H. C. Iefever, B.D., Ph.D.
Theological College, Cherrapunji	<i>Principal:</i> Rev. Sidney Evans, B.A.

During the past 26 years 169 students have qualified for the L.T.H. Diploma, 264 students for the B.D. Degree and 4 students for B.D. (Hons.).

Serampore College, with its well-equipped Hostel, its library of over 18,000 volumes, and its proximity to Calcutta with its resources in scholars and libraries, provides special facilities for research work, particularly in Theological subjects.

The sessions for both Departments are approximately:—

First term—July 1 to September 25.

Second term—November 1 to December 23.

Third term—January 2 to the end of April (or the close of examinations).

Further particulars regarding courses of study, qualifications for entrance, scholarships, etc., may be obtained either from the Principal, or from the Registrar, Serampore College, Serampore, F.I.R., Bengal.

## X

### Sreemathi Nathibai Damodher Thackersey Indian Women's University, Bombay

The University was founded by Prof. D. K. Karve in 1916 with the following aims and objects:—

(a) To make provision for the higher education of women through modern Indian Languages as media of examination and instruction by starting, aiding and affiliating institutions for such education.

(b) To formulate and lay down courses of study specially suited to the needs and requirements of women.

(c) To make provision for the training of teachers for primary and secondary schools.

(d) To institute and confer Degrees and Diplomas, etc., as may be prescribed by the regulations.

The conduct and governance of the University is vested in a Senate of 81 fellows consisting of those elected by the Electorates of Patrons, Graduates, Educated Ladies, and the General Electorate and the Electorate Associations conducting institutions affiliated to the University, together with the fellows co-opted by the Senate and those nominated by the Eldest Male heir of the Thackersey Family and Gordhandas Khetsi Trust. There are nine *ex-officio* members of the Senate, *viz.*, four Principals of four Colleges, four Trustees, and the Registrar. In all, the number of members of the Senate comes to 90. The Senate, every year elects eight Syndics who, together with the elected Chancellor, Vice-Chancellor and the Principals of Colleges, form the Syndicate which functions as the Executive Body of the University. The Registrar has no vote in the Syndicate. She is the Secretary.

The University is conducting two Colleges at Poona and at Bombay and has two other Colleges, one at Ahmedabad and the other at Baroda, affiliated to it. The Collegiate classes are also conducted at Nagpur and Bhavnagar. The total number of students in the four Colleges and the Collegiate classes at different centres was 269. There are two High Schools conducted by the University and there are eighteen schools working along the lines of the University. The total number of students studying in these schools is 5,260.

Training College for the Primary School Teachers' Diploma Examination at Poona is affiliated to this University and is doing very good work. These examinations are recognised by the Government.

The University has so far sent out 517 Graduates in Arts, and of these nearly half are working in the cause of women's

education by starting schools in different district towns.<sup>†</sup> Thirty-one women have taken the higher degree of P.A. and four have taken the Diploma in Teaching.

The University is not fully recognized by Government. Yet it is gratifying to note that the Government of Bombay have given a recurring grant of Rs. 5,000 to the University from the year 1939. By this act it has appreciated the work done by the University. Not only that but since 1939 the Degrees of this University are recognized by the Government of Bombay for purposes of Government and semi-Government services. Some of its schools receive Grant-in-Aid from the Department of Public Instruction, Bombay.

In the year 1936-37 the Government of Bombay and the Government of India gave a grant of Rs. 50,000 each for Building purposes. The University and the Bombay Colleges now are housed in their own premises in a fine locality at Bombay. It is seriously considering the problem of housing students coming from outside Bombay and it is hoped the University will be able to have a hostel in the near future.

### **Budget (Estimates) of the University, 1941-42**

INCOME			Rs.
Annual Grant from the Trustees of the late Sir Vithaldas D. Thackersey, kt.	..	..	52,500
From other sources such as interest on the Permanent Fund, Annual Subscriptions, etc.	..	..	76,018
Annual recurring grant from the Bombay Government			5,000
TOTAL			1,33,518
EXPENDITURE			
On University Colleges	..	..	41,534
On University Schools	..	..	50,224
Grants to Affiliated Institutions	..	..	10,250
Vanita Vishram, Bombay	..	..	5,000
Office expenses, examination charges and travelling allowances, etc.	..	..	31,197
Provident Fund	..	..	1,434
TOTAL			1,39,639

The deficit <sup>†</sup>is met from Donations and Balance Fund.

### **Admission, Courses of Study and Degrees**

Admission to the University by Entrance Examination or Matriculation of any Indian University recognized for that purpose.

*Degrees.*—(1) Graduate in Arts (G.A.); (2) Proficient in Arts (P.A.); (3) Bachelor of Teaching (B.T.).

*Diplomas.*—(1) Primary School Teachers' Diplomas.

*Certificates.*—(1) The Entrance Examination Certificate; (2) The Secondary School Certificate.

## Arts

### ENTRANCE EXAMINATION

*Principal (Compulsory) Subjects.*—(1) Modern Indian Language (Mother-Tongue), (2) English, (3) Domestic Economy and Hygiene.

*Subsidiary (Compulsory) Subjects.*—History, Geography and Sewing.

*Voluntary Subjects.*—Any one of the following:—

(1) Classical Language, (2) Modern European Language, *i.e.*, French or German, (3) Algebra and Geometry, (4) Physics and Chemistry, (5) Hindi (for those whose mother-tongue is not Hindi), (6) Drawing, (7) Music.

*N.B.*—A certificate in Arithmetic signed by the Head Master of any recognized High School is required to be produced by a candidate.

### F.Y.A., S.Y.A., AND G.A.

*Compulsory Subjects.*—(1) Modern Indian Language (Mother-Tongue), (2) English, (3) A Period of Indian History and Indian Administration, History of the British Empire and British Constitution and Sociology, (4) Biology, Physiology and Hygiene and Psychology.

*Voluntary Subjects.*—Any one of the following:—

(1) Classical Language, (2) Additional English, (3) Additional Modern Indian Language (Mother-Tongue), (4) Modern European Language, German or French, (5) Physics and Chemistry, (6) History and Economics, (7) Ethics and Philosophy, (8) Mathematics, (9) Geography, (10) Music, (11) Drawing and Painting, (12) Botany and Zoology.

*P.A.*—Any one of the above twelve Voluntary Subjects, except 4, 7, 9 and 12, in addition to Domestic Economy and Hygiene, Psychology and Philosophy, and Pedagogics in which the candidate has to answer six papers. Alternately a thesis which can be accepted in lieu of the whole or part of the Examination may be submitted.

Papers in all subjects except English are to be answered throughout in the mother-tongue of the candidate.

**Chancellors**

- 1916 Sir Ramakrishna Gopal Bhandarkar, M.A., Ph.D.  
 1920 Sir M. B. Chaubal, Kt., B.A., LL.B., K.C.I.E., C.S.I.  
 1926 The Hon'ble Sir C. V. Mehta, M.A., LL.B., K.C.S.I.  
 1932 Sir Sitaram S. Patkar, Kt., B.A., LL.B. (in office at present).

**Vice-Chancellors**

- 1916 Dr. R. P. Paranjpye, M.A., D.Sc.  
 1921 Professor D. K. Karve, B.A.  
 1921 Sir L. A. Shah, M.A., LL.B., Kt.  
 1926 Dr. R. P. Paranjpye, M.A., D.Sc.  
 1926 Mr. Balak Ram, M.A., I.C.S.  
 1929 Dr. Y. D. Nadgir, M.S., F.C.P.S.  
 1931 The Hon'ble Mr. Justice S. S. Patkar, B.A., LL.B.  
 1932 Professor D. K. Karve, B.A. (in office at present).

**Registrars**

- 1916 Professor D. K. Karve, B.A.  
 1917 Professor Dr. H. R. Diwekar, M.A., D.Litt.  
 1924 Professor N. M. Athavale, M.A.  
 1931 Dr. (Mrs.) Irawati Karve, M.A., Ph.D.  
 1936 Mrs. Sharada Divan, M.A. (in office at present).

**Endowments**

There are eighteen prizes and eighteen scholarships awarded from the interest on the Endowment Fund, and also a few temporary endowed prizes and scholarships.

**University Property**

			Rs.
Permanent Fund	..	..	.. 1,03,193
Endowment Fund	..	..	.. 71,300
TOTAL			.. 1,74,493

In addition to the above the University owns the following:—

			Rs.
1.	24 Acres of Land at Yerandawana	..	.. 36,000
2.	Main Building of the S.N.D.T. College	..	.. 1,25,000
3.	Hostel Building	..	.. 75,000
4.	Minor Buildings, etc., near the College	..	.. 25,000
5.	Price of Land for the S.N.D.T. Kanyashala	..	.. 27,000
6.	The Vithal Raghoba Land Building	..	.. 62,000
7.	New Building for the University and College (Land at Bombay)	..	.. 2,46,289
TOTAL			.. 5,96,289



## XI

### Thomason College of Civil Engineering, Roorkee

The main point that influenced the establishment of the Thomason College of Civil Engineering was the necessity for some systematic training for Civil Engineers in India as it was apparent that there existed a large demand for skilled men in every branch of Civil Engineering, and it was necessary to provide a constant supply of well-trained and experienced Engineers for the Public Works Department. Thomason College of Civil Engineering owes its origin to the Hon'ble Mr. J. Thomason, Lieutenant-Governor of the North-Western Provinces. It opened on the 9th October 1847, under the guidance of the first Principal, Lieutenant R. Maclagan of the Engineers. The departments are well equipped with laboratories, lecture theatres and model rooms. There is a very good library, one of the largest in the country, comprising about 27,000 volumes.

*Civil Engineer Class.*—Course three years. Candidates must not be under 17 years or above 21 years of age. Over-age candidates not exceeding 25 can also appear under certain conditions given in the circular. Session commences on October 16th. Applications to be made not later than April 15. An entrance examination (fee Rs. 20) is held in the first week of June. The minimum qualification is a pass in the Intermediate Examination with Chemistry, Physics and Mathematics.

Tuition fee Rs. 24 per mensem. Hostel rent Rs. 5-12-0 per mensem. Furniture Rs. 2-8-0 per mensem. Books cost about Rs. 185-4-0. Monthly expenses—Vegetarian diet Rs. 89 and Non-Vegetarian diet Rs. 97. Final Examination fee Rs. 40.

Common Mess is maintained. Messing charges, vegetarians Rs. 23, Non-vegetarians Rs. 31 per mensem. These charges are included in the monthly expenses.

Sixteen scholarships of Rs. 50 per mensem are sanctioned for this class out of which three are reserved for students from the Scheduled Castes, one in each year. Of these 6 will be awarded to first year students, 5 to second year students and 5 to third year students. Only United Provinces students are eligible for those scholarships. One scholarship in each year has been reserved for a Scheduled caste student.

Diplomas in Civil Engineering and Certificates for employment as Assistant Engineers in the Public Works Department

are awarded to those students who pass the final examination at the end of the three years' course. Two vacancies in the Provincial Service of Engineers, U.P., are reserved for the two students who pass out highest in the final examination of the Civil Engineer class.

*Overseer Class.*—Course two years. Candidates must not be under 16 or above 21 years of age. Over-age candidates not exceeding 25 can also appear under certain conditions given in the circular. Session commences on October 16. Applications to be made not later than April 15. An entrance examination (fee Rs. 10) is held in the first week of June. The minimum qualification is High School Examination or its equivalent.

Tuition fee Rs. 6 per mensem, Hostel rent Re. 1 per mensem, monthly expenses Rs. 45 for Indians and Rs. 80 for Europeans.

Sixteen scholarships of Rs. 25 per mensem are sanctioned for this class out of which one is reserved in each of the 2 years for a student from the Scheduled castes. Of these 8 will be awarded to the first year students and 8 to the second year students. Only United Provinces students are eligible for these scholarships. One scholarship in each year has been reserved for a Scheduled caste student.

Certificates as Overseers are granted to those who complete their course successfully.

*Draftsman Class.*—Course three years. Session commences on October 16. Applications to be made not later than April 15. An entrance examination is held in the first week of June. The minimum qualification is a pass in School Promotion Examination in Class VIII of an Anglo-Vernacular School.

No fee and no rent. Instruments will be supplied free. There are 12 scholarships of Rs. 4 per mensem for this class.

Twelve scholarships of Rs. 4 per mensem are available for award to the top four U.P. eligible students in each session of this class; out of these three are reserved for students from the Scheduled castes, one in each year, during the college session.

Certificates as Draftsmen are granted to those who complete their course successfully.

For circulars of all classes apply to the Principal enclosing  $\frac{3}{4}$  anna for postage for each circular.

PRINCIPAL

Rai Bahadur Madan Gopal Sardana.

## DEPARTMENTS

Civil Engineering, Surveying and Drawing and Chemistry	<p>Rai Bahadur Mool Chand Bijawat, Professor of Civil Engineering.</p> <p>Mr. V. G. Garde, M.Sc. (Eng.) (Manch.), Assistant Professor of Civil Engineering.</p> <p>Mr. K. L. Bhattacharya, M.Sc., Lecturer in Chemistry.</p> <p>Mr. P. L. Sharma, F.R.I.B.A., Lecturer in Drawing (<i>on leave</i>); Mr. S. K. Gupta, Lecturer in Drawing (<i>Offg.</i>).</p> <p>Mr. Shiva Raj Singh, B.Sc. (Civil Eng.) (Bristol), A.M.I.E., Lecturer in Surveying.</p> <p>Mr. Jai Krishna, B.Sc., C.E. (Roorkee), Lecturer in Civil Engineering (<i>Tempy.</i>).</p>
Pure and Applied Mathematics and Physics	<p>Mr. B. D. Puri, M.A. (Cantab.), Professor.</p> <p><i>Vacant.</i> Lecturer in Mathematics.</p> <p>Mr. Anand Sarup, M.Sc., A.M.I.E.E., Lecturer in Physics.</p>
Mechanical and Electrical Engineering	<p>Mr. J. E. Crawford, Assistant Professor. (Services placed at the disposal of the Defence Department.)</p> <p>Mr. B. L. Sharma, B.Sc. (Hons.) (El. Eng.) (Bristol), Lecturer in Mechanical Engineering, <i>Officiating</i>.</p> <p>Dr. Z. U. Ahmad, B.Sc. (Hons.), D.I.C., Ph.D. (Eng.) (Lond.), Lecturer in Electrical Engineering.</p> <p>Mr. Jagdamba Prasad, A.M.I.E., Lecturer in Mechanical Engineering, <i>Officiating</i>. Assisted by three Foreman Instructors and one Assistant Foreman Instructor.</p>
Personal Assistant to the Principal	<p>Mr. Jai Krishna, B.Sc., C.E. (Roorkee).</p> <p>Mr. Kashi Saran Misra, C.E. (Roorkee), <i>Officiating</i>.</p>
Overseer Class ..	<p>Mr. Prabodh Chandra Sen Gupta, B.Sc., (<i>Offg.</i>) Headmaster.</p> <p>Mr. Jewan Lal, Instructor.</p>
Draftsman Class ..	<p>Mr. P. L. Sharma, F.R.I.B.A., Lecturer in Drawing.</p> <p>Pdt. Reotinandan, Instructor.</p>

## XII

### Visva-Bharati

Pratisthata-Acharya ( <i>Founder-President</i> )	Rabindranath Tagore.
Acharya ( <i>President</i> )	.. Abanindranath Tagore.
Upacharya ( <i>Vice-President</i> )	Hirendranath Datta.
Pradhanas	.. Mahatma M. K. Gandhi.
"	.. ( <i>Vacant.</i> )
"	.. Sir S. Radhakrishnan.
"	.. L. K. Elmhirst.
"	.. ( <i>Vacant.</i> )
"	.. C. C. Dutt.
"	.. Dr. Tai-Chi-Tao.
Artha-Sachiva ( <i>Treasurer</i> )	Dr. D. M. Bose.
Karma-Sachiva ( <i>General Secretary</i> )	Rathindranath Tagore.

### HISTORY

Visva-Bharati has grown out of the Santiniketan Asrama founded by Maharshi Devendranath Tagore in 1863 for the use of those who wished to meditate in an appropriate environment on the One Impersonal. In 1901, a school was started at Santiniketan by Rabindranath Tagore with the object of providing for a limited number of children, an education which would not be divorced from Nature, where the pupils could feel themselves as members of a larger family, and regard the affairs of the institution as their own, and where they would learn and grow in an atmosphere of freedom, mutual trust and happiness.

Ever since its inception, thinkers and scholars from all over the world were gradually attracted by the work, embodying the ideals of its founder and it became clear that the Santiniketan Institution should not be confined to a school but should afford scope for a larger and more comprehensive realisation of the poet's educational ideals. On the 6th May 1922, the Visva-Bharati as an International University was formally founded and endowed by Rabindranath Tagore and registered as a public body with the declared object: (i) of bringing the diverse cultures of the East into more intimate relationship with one another, (ii) of approaching the science and culture of the West, from the standpoint of their unity, and (iii) of realising in common

fellowship of study and humanitarian activity, the concord of the East and the West, and thus to bring about the conditions that may lead to world harmony.

The Institution is situated about a hundred miles from Calcutta, and is at a distance of a mile and a half from Bolpur, a station on the loop line of the East Indian Railway. It is remote from the distractions of town life and yet within easy reach of the stimulating activities of an intellectual centre. A quiet spot in the middle of open country with wide open plains stretching to the horizon on all sides, Santiniketan has about it an atmosphere of spiritual serenity which, along with its peculiar intellectual and artistic features, attracts students not only from every part of India but also from distant parts of Asia and Europe.

The Institution is co-educational and residential. A limited number of day-scholars are admitted. There are separate hostels for boys and girls.

There are extensive playgrounds where boys and girls have separate facilities for playing various games, foreign and indigenous.

The Library has a good collection of books and manuscripts, many of them are rare, numbering approximately 1,45,500.

The number of students being very limited in each class, individual attention is possible.

The Art Museum, Seasonal Festivals, Musical and Dramatic Performances are there to stimulate the creative talents of the students.

### INSTITUTIONS AND COURSES

Visva-Bharati maintains the following institutions:— (1) *Vidya-Bhavana* (School of Research); (2) *Cheena-Bhavana* (School of Sino-Indian Studies); (3) *Siksha-Bhavana* (College); (4) *Kala-Bhavana* (School of Fine Arts and Crafts); (5) *Sangit-Bhavana* (School of Music and Dancing); (6) *Patha-Bhavana* (The School); (7) *Sriniketan* (Institute of Rural Reconstruction); (8) *Silpa-Bhavana* (Industries Department).

(1) *Vidya-Bhavana* (Principal: Kshitimohan Sen, Sastri, M.A.) is meant for those advanced scholars who intend to pursue higher studies and to learn the methods of research in order to carry on investigations into the domain of Oriental languages and literature, thought and culture.

The following languages are taught:—(1) Sanskrit (Vedic and Classical), (2) Avesta, (3) Chinese (Classical and Modern), (4) Arabic, (5) Persian, (6) Pali, (7) Prakrit, (8) Hindi, (9) Urdu, (10) Bengali, (11) French, and (12) German.

Facilities for original research are available in:—(1) Sanskrit Literature, (2) Pali and Prakrit Literatures, (3) Hindi Literature, (4) Bengali Literature, (5) Indo-Aryan Literatures, (6) Indian Philosophy, (7) Buddhism, Indian, Chinese, (8) Arabic, Persian and Urdu Literatures, and (9) Indian Mysticism.

There is no regular course of studies prescribed for the students; it depends entirely on the requirements of individual cases.

Students may have practical training by taking part in:

- (a) Restoration of lost Sanskrit works from Chinese sources.
- (b) Editing of Sanskrit, Chinese and other works.

The Library is well equipped with collections of works on Indian subjects, in German, French, Italian and English. It has also a very good collection of Sanskrit, Pali, Prakrit, Tibetan, Chinese, Japanese, Arabic and Persian books, besides 3,000 MSS. mainly Sanskrit.

(2) *Cheena-Bhavana* which was recently established by the Sino-Indian Society and whose Director is Professor Tan-Yun-Shan, the distinguished Chinese Authority on Mahayan Buddhism, has a house of its own, and a library with about 100,000 volumes in Chinese. The object of the Cheena-Bhavana is to establish and promote cultural exchange between China and India, for which purpose it provides facilities for Chinese scholars to study Indian Languages, Religions and Philosophy, as well for Indian scholars to study the Chinese Language, Religions and Philosophy; Buddhism being regarded as the nucleus of all such studies.

(3) *Siksha-Bhavana*: [Principal: Anil Kumar Chandra, B.Sc. (Lond.)] provides for two academic courses, running parallel to each other, the regular Calcutta University Course from the Intermediate in Arts and Science to the B.A. Degree; and the Visva-Bharati course with its Diplomas, corresponding to the Matriculation (*Praveshika*) Certificate, Intermediate (*Madhyic*) Certificate, and the B.A. (*Antya*) Degree of the other Universities.

The College is recognized by the Calcutta University under Chapter XVI, Sec. 7, of the Regulations. Subjects of study:

#### I.A. AND I.Sc.

*Compulsory Subjects*:—(i) English; (ii) Vernacular—Bengali, Hindi, Urdu, etc.

*Optional Subjects, I.A.*:—Any three of the following subjects:—  
 (i) Classical Language—Sanskrit, Pali, Persian, Arabic, French, German or Bengali (for female candidates only);  
 (ii) History; (iii) Logic; (iv) Civics; (v) Mathematics;  
 (vi) Botany.

*Optional Subjects, I.Sc.*:—Any three of the following subjects, of which Chemistry must be one:—

- (i) Mathematics; (ii) Chemistry; (iii) Physics; (iv) Botany.

### B.A.,

*Compulsory Subjects*:—(i) English (Pass & Hons.); (ii) Vernacular—Bengali, Hindi, Urdu, etc.

*Optional Subjects*:—Any two of the following subjects:—

- (i) Classical Language—Sanskrit (Pass & Hons.); Persian (Pass & Hons.); Pali (Pass & Hons.); Arabic, French, German, Bengali (Pass & Hons.) or Hindi; (ii) Political Economy & Political Philosophy (Pass & Hons.); (iii) Mental & Moral Philosophy (Pass & Hons.); (iv) Linguistics (Pass & Hons.); (v) History; (vi) Mathematics.

*Other Subjects of Study*:—Painting, Drawing, Sculpture, Vocal and Instrumental Music, Agriculture, Carpentry, Weaving, First Aid, etc., may be studied in other departments. Informal classes in Domestic Science, Nursing, Sewing, Knitting, Gardening, etc., are held for girl students.

*Kala Bhavana* is under the direction of Nandalal Bose. It has built up a School of Painting which has found world-wide recognition. It has a big library of its own, and a Museum which exhibits a variety of rare and interesting collection of paintings and antiquities of different ages and countries specially of the East.

The system of training is more or less on the studio line, where students and teachers work together.

*Details of the Course*:—(i) The general course is for five years. The first four years consist of Free-hand Drawing, Nature Study, Decorative Drawing, Copying, Designing, Modelling and studying Traditional Paintings.

(ii) Besides the general course students should take up at least two of the following subjects in the final year.

Fresco Paintings, Wood Engravings, Japanese coloured wood block, Architectural Drawing, Lithography, Modelling and Needle-work.

(iii) For girl students Needle-work is compulsory in addition to decorative design.

The School of Music and Dancing called *Sangit Bhavana* is under the personal guidance of Indira Devi Chaudhurani. It aims at providing instruction in all the three branches of Indian Music; i.e., *Gita* (Vocal Music), *Vadya* (Instrumental Music) and *Nritya* (Dancing).

## 1. VOCAL MUSIC

Bengali Music, specially Tagore's songs. The students begin with simple songs which gradually lead to more difficult compositions. In the musical soirees each season receives its fair share of songs recalling the scenery and feeling associated with it.

"In the classical Hindusthani Music the *Ragas* are taught to the accompaniment of the principal *Talas*.

## 2. INSTRUMENTAL MUSIC

Instruction in the playing on the *Esraj* and the *Sitar* follows closely on the lines laid down for vocal music.

## 3. INDIAN DANCING

The course is based chiefly on the Manipur and South Indian style of dancing. Other schools are represented from time to time.

The Department organises the season festivals and musical soirees, and dramatic performances of the Poet's plays.

- (9) *Patha-Bhavana* (Rector: K. R. Kripalani, B.A., Bar-at-Law). A progressive school. Students are expected to take as much interest in the so-called extra curricular activities as in their ordinary subjects of study and as much emphasis is laid on the training of the senses as on the development of the intellect.
- (10) *The Institute of Rural Reconstruction* called *Sriniketan*, exists in Rabindranath's own words, "To bring back life in its completeness into the villages making them self-reliant and self-respectful, acquainted with the cultural tradition of their own country, and competent to make an efficient use of the modern resources for the improvement of their physical, intellectual and economic condition."

The problem of the villages is approached in the following ways:—

*Health*.—By organising outdoor dispensaries, prevention of diseases, control of epidemics and midwifery on co-operative lines.

*Education*.—By maintaining rural schools for boys and girls, training rural school teachers, and social workers and organising adult education and *Brati-Balaka* (Social Service) Leagues. ✱

*Agriculture and Dairy*.—A Central Dairy and Demonstration Farms in villages are run to introduce better breeds of cattle and improved seeds and forms of manure.



*Economics*.—To carry on regional investigations relating to the economic life in the surrounding villages, a separate Board has been formed under the name of Visva-Bharati Economic Research Board.

① *Silpa-Bhavana* (Industries Department).—The various forms of arts and crafts in the villages are being revived to help in the reconstruction of their economic life. Weaving, leather-work, carpentry, lacquer work are some of the crafts that are taught here. The business side of the *Silpa-Bhavana* is only a subsidiary feature, its real aim and object is to encourage and promote cottage industries in the district.

### Constitution, Officers and Staff of the Visva-Bharati

The supreme control is vested in the *Parishat*, the *Sadasyas* (members) in General Meeting assembled. The Governing Body is the *Samsad*, consisting of members elected by the *Sadasyas* and the representatives of the different departments.

The membership of the Visva-Bharati and of its Constituent Bodies is open to all persons, irrespective of sex, nationality, race, creed, caste or class; and no test or condition is imposed as to religious belief or profession in admitting members, students, teachers, workers, or in any other connection whatsoever.

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